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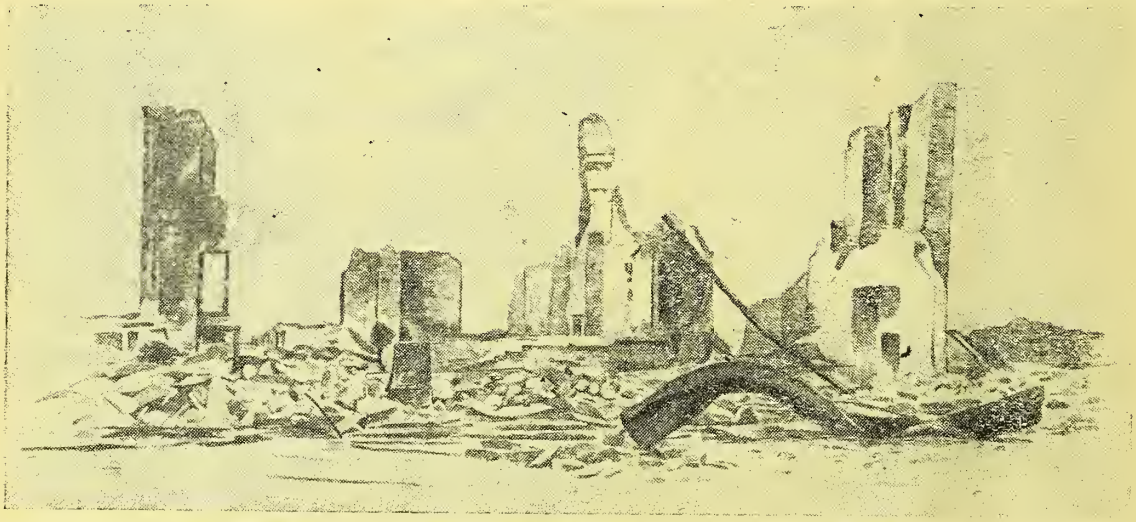
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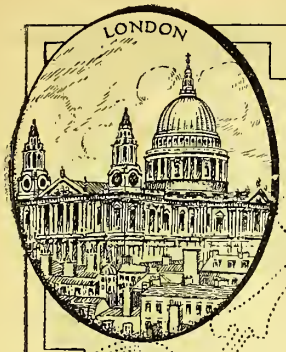
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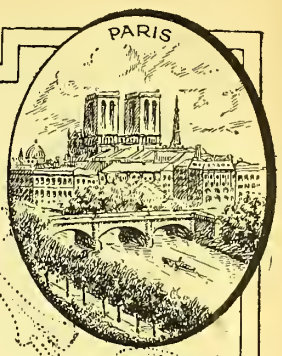
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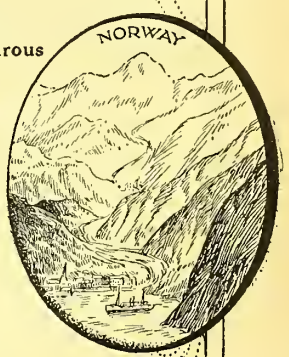


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Tannic Acid
Tannin Albuminate
Tartaric Acid
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanillin



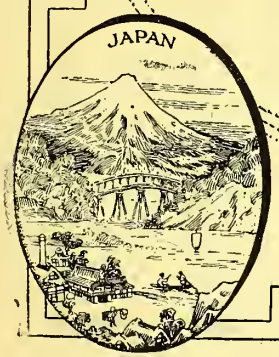


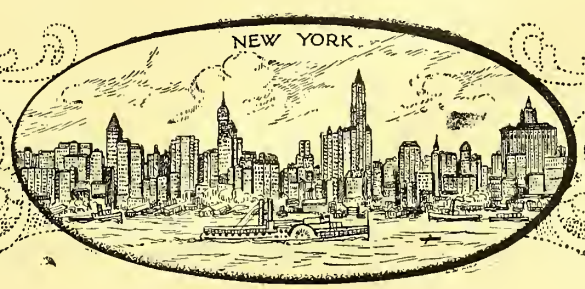
R. W. Greeff & Co.

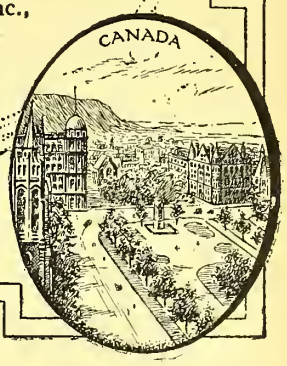
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LONDON, E.C.4.

MANCHESTER BRANCH
Lloyd's Bank Buildings.
King Street.

NEW YORK AGENTS
R. W Greeff & Co., Inc.,
78, Front Street.







SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB-LIVERPOOL." Tel. 1049 CENTRAL.

Agents at ST. JOHN'S, N.F. Established 1780.

SAFETY RAZOR SHARPENING

BY LATEST ELECTRICAL MACHINERY.

We guarantee a perfect edge on ANY blade, ANY make.

Trade terms: 6d. PER DOZEN net.

Blades returned same day as received.

SEND US YOUR WORK.

THE LIVER RAZOR CO., 77a DALE STREET, LIVERPOOL.

A GOOD SIDELINE FOR CHEMISTS

ARTISTIC, PHOTOGRAPHIC

ENLARGEMENTS

BLACK & WHITE SEPIA COLOURED

MAXIMUM QUALITY — MINIMUM PRICE.

Send for Price List and Showcard to

THE EXPRESS DEVELOPING CO. (F. WOOD)

Established 1904.

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EVANS, GADD & CO., Ltd.

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Beg to call the ATTENTION of their RETAIL FRIENDS to their

PACKED GOODS

THIS DEPARTMENT HAS RECENTLY BEEN
ENLARGED AND IS NOW COMPLETELY RE-ORGANIZED

OUR AIM IS TO GIVE THE PHARMACIST

EVERYTHING he wants and
EXACTLY WHAT he wants.

WE INVITE INQUIRIES which will receive our IMMEDIATE ATTENTION.
MAY WE BRING TO YOUR NOTICE ONE OF OUR SPECIALITIES BELOW?

A Good Nutritive Hair Tonic is never Out of Season.

An old and proved line in a new style, to introduce which we make this special offer for this month only. Write out your order as below:—

Please send me, with Showcards,
3 doz. Nutritive Hair Tonic **£1 . 7 . 0.**
½ doz. Free display Bonus. Cash with order.
I enclose cash, **£1 . 7 . 0.**

Cost. £1 . 7 . 0

SALES.
3 doz. Nutritive Hair Tonic @ 1/3 = £2 . 5 . 0
½ doz. Free display Bonus @ 1/3 = 7 . 6
£2 . 12 . 6

Profit. £1 . 5 . 6

NAME AND ADDRESS FREE ON SIX DOZEN.

MAKE IT YOUR OWN LINE.

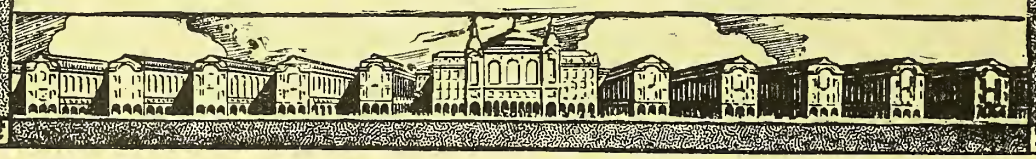
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THE LYONS FAIR is to-day's greatest opportunity for trade expansion in every industry and with every market throughout the World. It is not an Exhibition, but a purely business gathering of progressive men and their customers.

The business propensities of the Lyons Fair are indicated by the fact that at the March, 1919, Fair, 4,700 exhibitors transacted business to the value of £40,000,000. Lay the foundation of a permanently expanding world-wide trade (buying and selling) by taking immediate steps to secure a Stand in Sections 11, 12 and 13 for Chemicals and Drugs.

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For particulars apply to Mr. J. A. VICTOR, 31 (P) Budge Row, LONDON, E.C.4



EGG PRESERVING— BEST WATER GLASS.

We are the largest packers, and only use best quality Water Glass, 140 T.W., and thoroughly sound containers, sent in strong *screw* cases, carriage paid. If you have not received our price list, please write. We can give definite delivery, a satisfactory article, and attractive advertising matter. Your own name and title on labels.

A PROFITABLE LINE,

and, please note, carriage paid, which is a consideration on this heavy article. We pack a good POULTRY SPICE.

TOMLINSON & HAYWARD, LTD.
LINCOLN.

Maw's Page

No. 429 Jan. 3, 1920.

A POCKET ORO-NASAL INHALER

THE compelling feature of Maw's Pocket Inhaler is its "completeness"—it is all that one requires. The double nose-piece is anatomically correct and made of purest rubber, whilst a convenient glass mouth-piece is provided at the other end. Charging with medicament is a most simple matter. Simply remove indiarubber nose-piece and sprinkle the required preparation on the cotton wool provided inside the glass container.

The whole apparatus can be sterilised if desired. The general design is very tasteful and the quality obviously good. Undoubtedly the best Pocket Inhaler yet produced.



Complete in box as illustrated, with either eucalyptol, menthol or pine inhalant.

PRICE
17/9
PER DOZ.



S. MAW, SON & SONS, LTD.
7-12, ALDERSGATE ST, LONDON, E.C.1, ENGLAND.



Maw's—"The House of the Moment."

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.
SPINELLI

THE OILS THAT HAVE A LONG REPUTATION FOR QUALITY.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.

Lavington Street, Southwark, LONDON, S.E. 1

A B C Code, 5th Edition
Western Union.

Telegrams: "LANDSLOH, LONDON."
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TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniper Berry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC ALDEHYDE

GERANIOL

CITRAL

EUCALYPTOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition). Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

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CANADIAN AGENTS—F. S. JARVIS & CO., 18 Toronto Street, Toronto.

PURE SPANISH ESSENTIAL OILS



SEND YOUR ORDERS AND INQUIRIES TO

THE FIRM WITH THEIR OWN HOUSE IN SPAIN
"WHERE THE OILS COME FROM."

LONABARC TRADING COMPANY
LIMITED,

5 FINSBURY SQUARE, E.C. 2.

Telephone : LONDON WALL 9020. Telegrams : "LONABARC, FINSQUARE, LONDON."

CERTIFIED PURE BY

LANZONE

ADEPS LANÆ B.P.

THE INSTITUTE OF HYGIENE.

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The Produce Brokers Co., Ltd., 24/28 ST. MARY AXE LONDON, E.C. 3.

Telegrams: "SYNTAX, LED, LONDON." *Phone: AVENUE 3410 (9 Lines).*

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)
NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),
VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.
ORRIS CONCRETE and LIQUID.
ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.
We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES
and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:
STEPHENS BROTHERS & CO., 2, 5 & 6 Bury Court, St. Mary Axe, London, E.C. 3.
Wholesale Houses only supplied.

That All-together Feeling !

PAGE 15 AYRTONS

There's a considerable loophole for draughts where the waistcoat meets the nether garments, and it is here that the BODY BELT plays a very useful part.

There is great comfort in a Body Belt. It gives one that all-together feeling one appreciates so much, especially after a Cold or other illness.

The One-Sale-More point this week is to sell two Belts. "One on, one off,"—just as the first sale is effected,—and "I'll take two" will follow in most cases.

Body Belts, Gent's.

The "Ayrton," Grey Felt	33/-
,, Scarlet	36/-
The "S.S.S." Grey Felt...	42/-
,, Scarlet ...	45/-
The "Rodney," Natural Flannel	54/-
The "Atlas," Grey Felt...	48/-
,, Scarlet ...	51/-
Flannel, Woven, Grey ...	54/-

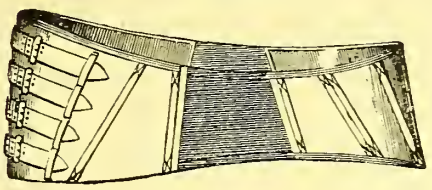


Fig. 121

Belt to Measure

Dove Coutil, Elastic Insertions, 121 ... ... each 9/6

EACH BELT THE WELL-MADE PRODUCT OF OUR OWN FACTORY.

"Illustrated Price Circular and measurement form" for belts to measure supplied free on request.

AYRTON, SAUNDERS & CO. LTD. LIVERPOOL

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities—Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

WHOLESALE & EXPORT ONLY.

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REGGIO, CALABRIA (Italy),

Co-operative Society of Citrus Plantation Growers and Essential Oil Makers.

Buy Direct from Actual Producers

HIGHEST-GRADE GENUINE CALABRIAN OILS OF

LEMON
BERGAMOT
ORANGE

MANDARIN. PETIT-GRAIN. NEROLI.

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Phone: City 7941.

Cresp-Martinenq

(Grasse, France),

Manufacturers of

ESSENCES & PRIME MATERIALS for MANUFACTURING PERFUMERS, CONFECTIONERS, ETC.

SYNTHETICS,

ARTIFICIAL VIOLETS (MYRIONE),

ARTIFICIAL MUSK.

INQUIRIES SOLICITED. LARGE STOCKS

ROBERT FERBER, LTD.
98/104 OAKLEY STREET,
LONDON - S.E.1.

Agents for the UNITED KINGDOM & CANADA.

"DISTOL"

LILY of JAPAN



A "Distol" that will stand dilution with water up to 50% without loss of its distinctive charm. Ask for sample

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

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THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE

(The original solid Eau de Cologne).

(Regd.)



THE WORLD'S GREAT PERFUME AND REFRESHER IN SOLID FORM

Retails (P.A.T.A.) Minimum - **3/-** giving at least **10d.** Profit on each sale.

26/- - - per doz.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

CARNATE (Regd).

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum **1/6**; **12/-** per doz.

ANALAX

(Reg. Pat. No. 310716).



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum **2/3** **21/-** per doz., stamped.

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TOM LAYCOCK & CO.

(*Tom Laycock, Proprietor*),

ISLES GLASS WORKS,
Holbeck Lane, LEEDS.

We can supply:—
Amber Blauds, Corn Solvents, Eau de Colognes, Kalis, Limes and Mexican Flats in White Flint, Amber, and Actinic Green Glass, Medical Flats, Amber Malt Jars complete with fittings. Marking Inks, Pomades, Poisons, Smelling Salts, Vials, &c. &c.

WHOLESALE ONLY.

Write for prices, mentioning quantities and deliveries.

ISINGLASS

(AGAR AGAR)

Present stock about 90 long tons of each grade. Because of this surplus from last season, makers have agreed to restrict this season's output to 70%, and to raise prices 20% for new stock at beginning of new season. **We strongly advise immediate placing of orders for spot stock.** October to December is best time to place orders for new stock, shipment beginning in January. Let us quote by cable C.I.F. on minimum orders of 1 long ton. Simply cable us "Isinglass Nos. ," and we will understand and quote on Kobe goods. Payment under bank letter of credit.

The Mutual Traders

Cables: "SIMSLAND, KOBE, JAPAN."
Codes:
BENTLEY'S; Western Union; ABC (5th Edit.)

British and American owned.

C&C Ltd TRADE MARK

Plasters

We invite applications for copies of our new Price List for Plasters which indicates the range of lines we manufacture, including:

ADHESIVE. Rubber Combination. Spools, tins, or rolls.

POROUS. All kinds.

MARGINAL. A full range.

MUSTARD. On cloth or paper, in envelopes or tins.

ZINC OXIDE. Spools or tins.

COURT PLASTERS on cloth or silk. Plain or perforated etc. etc.

CUXSON, GERRARD & CO. LD.
OLDBURY, near BIRMINGHAM.

Export and Colonial inquiries specially invited.



"AVILLIA" OILS OF FLOWERS

IN BULK

DIRECT IMPORT FROM FRANCE

Finest quality heavy mineral oil, perfumed by the maceration of flowers. The only method by which the most delicate fragrance of the flowers is not destroyed. A vastly superior product to the oils perfumed with essences and frequently offered as the genuine article.

Odours: **VIOLET, JASMIN, ROSE, ORANGE, MUGUET, WALLFLOWERS, ETC.**

No. 12. 8/- per kilo. No. 24, 12/- per kilo. No. 36, 16/- per kilo.

Packed in 1, 2, 5, 7, 14 & 28 lb. cans.

Owing to the prevalent shortage of bottles, many firms desire these oils packed ready for retail. To meet this demand I am offering an attractive line of 1 oz. glass-stoppered bottles (see illustration), in No. 24 quality oil, assorted perfumes, at 15/- per doz. Free delivery in United Kingdom.

MINIMUM RETAIL PRICE, 2/6 per bottle.

"AVILLIA PERFUMERY,"

95 & 97 CHARLOTTE STREET, LONDON, W. 1.

The PREMIER PERFUMERY

CO., LTD.

61-62 Chancery Lane, London, W.C.2.

We have the finest stock ready for delivery of

Perfumes
Toilet Preparations
Face Creams
Face Powders
Tooth Pastes & Powders

Over a hundred lines made from the very best materials and showing large profits to retailer.

Write for Wholesale Price List.

Teleg. & Cables: "Saddletree, Holb., London."
Phone: Holborn 3185 (Private Branch Exchange).

The Advertising behind ZENOBIA

THE distinctive advertising which is appearing in journals of importance is creating a steadily increasing demand for ZENOBIA Perfumes. The ZENOBIA Perfumes are the last word in true flower fragrance.

ZENOBIA
CONDENSED PERFUMES

Retail prices are 3/-, 6/-, and 12/6 per bottle, whilst trade prices are 27/-, 54/-, and 108/- per dozen, less usual discount.

You should share in the prosperity brought by ZENOBIA merits and ZENOBIA advertising by ordering sufficient supplies to meet future demands.

ZENOBIA, LTD.
Wholesale Manufacturing and Export Perfumers,
LOUGHBOROUGH, ENGLAND.

"PREEMO"

CONCENTRATED ESSENCES, FLORAL OTTOS and COMPOUNDS

For the Manufacture of High-Class Toilet Preparations.

It is difficult to describe the merits of the PREEMO products in cold print. You must SEE and USE these Essences, etc., to appreciate their exceptional strength, purity and odour. And you can always depend on PREEMO quality, because it never varies. The word PREEMO means First or Leading, and this is strictly true of PREEMO Concentrated Essences, Floral Ottos and Compounds—they are far ahead of anything else on the market.



1 kilo. 500 grs. 250 grs. 200 grs. 100 grs.

Send for Samples
All bona-fide requests will be promptly responded to.

Preemo Essences
No. 2,000, 3,000 and 4,000 "Preemo" Essences 12/6 per 100 grams (equal 3½ oz.). £6 per kilo (equal to 36 oz.).
No. 5,000 ditto, 25/- per 100 grams.
No. 7,000 ditto, from 50/- per 100 grams.
Special quotations for large quantities.

Send Trial Order *To-day*
We are content to let the result decide for or against further orders.

The PREEMO Concentré and Essential Oil Co.,
63 High Holborn, London, W.C.1.

Telegrams: "APPREEMONA," Holb., London. **Telephone: Holborn 3095.**
32 Rue de Montenotte, Paris. **Telephone: Wagram 27/35.**

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads.	36/-	4/-
BARSYDE - - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - - Nut oil shampoo.	22/6	2/6

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DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
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La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual,

All these articles are protected at Face Value. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

PERFUMERS CONFECTIONERS



NEROLI "D'ITALIA"

The Queen of the Essences.

ESSENTIAL OILS
CONCENTRATED ESS. OILS
From the Sunny Country.

EXPORTATION THROUGHOUT THE WORLD

Export Agent:

Giuseppe Macajone, MILAN

Via Canova 25 (Italy).

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Telephones for Orders:- MUSEUM 700 TO 706
Telegrams:- "PHARSALIA, EUSROAD" LONDON.

INVITE YOUR INQUIRIES FOR

CAMPHOR ICE.	
CAMPHOR ICE with **LANOLINE.**	In moulded blocks, which will not scale or break off.
COLD CREAMS.	Perfumed and White; rub well in; non-oily.
EGYPTIAN HENNA SHAMPOO.	Contains good proportion of Henna; perfectly harmless.
LIME CREAMS.	White, and practically non-separable.
OINTMENTS.	Satin finish, milled and sieved; best materials now available.
TOILET CREAMS.	In great variety. Greasy or non-greasy; vanishing or skin-food type.
TOILET PARAFFINS.	Golden, Water White and Violet-scented (green).
VIOLET POWDER.	Absolutely non-gritty, perfumed. White.

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LONDON, N.W.

SIANARA (Regd.)

(Pronounced Sigh-an-ah-rah)

Est. 277 years is a guarantee of the quality.

JUDGING by the *repeat* orders received every week in the Factory, there are other people besides ourselves who know "Sianara" to be a good thing, and who, with us, have every confidence in it. It is a registered proprietary soap, retailing at the popular price of 5d. per tablet. It is triple milled and superfatted, and is free from colouring matter. One of its charms lies in its unique, enchanting perfume reminiscent of Old Japan. It is emollient in use and absolutely pure—you can safely recommend it to your customers to your own and their satisfaction.

Supplied in Standard 5d. size and shape, and in 5d, 7d., 8d., and 10d. Round Bath.

J. C. & J. FIELD, Ltd., *TOILET SOAP EXPERTS,* Upper Marsh, Lambeth, S.E. 1.

The AMAMI Way to MANICURE



COUNTER DISPLAY BOX.

Ask your Wholesaler for Showcards.

FIRST file with long **EMERY BOARD** (12/- a doz.), then soak in **AMAMI LIQUID SOAP** (12/- a doz.), clean under the nail with an **ORANGE STICK** (12/- a doz.), dipped in **CLEANSING FLUID** 12/- a doz.), push back cuticle with an orange stick dipped in **CUTICLE CREAM** (8/- a doz.), remove loose cuticle with **CUTICLE FLUID** (12/- a doz.), tint with **RUBY COSMETIQUE** (12/- a doz.), polish with **POLISHING CREAM** (12/- a doz.), or **NAIL CRAYON** (6/- a doz.), or **NAIL POWDER** (12/- a doz.), and cover with **VARNISH** (12/- a dozen); whiten hands with **SUC DE GARDENIA** (20/- a doz.).

10/- CASH BONUS for a £5 **WINDOW DISPLAY.**

COUNTER DISPLAY BOX FREE.

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COURT PERFUMERS. EST. 1831.

469 HOLLOWAY ROAD, LONDON, N.

Cables—"Amamireg, Holway, London."
Phone—3170 North.

Profit by the Growing Demand *for* Snowfire.

Large numbers of women doing outdoor or indoor work are buying Snowfire regularly. They have discovered its cleansing, softening and beautifying influence upon the skin—how it keeps the hands white and dainty.

Snowfire

Sells freely all the year round. Specially valuable in Winter for Chapped Hands, Cracked Lips, or Roughened and Irritated Skin.



Well advertised. Shows good profits. Attractive publicity matter free. Goods carriage paid to your door. For Price List write

F. W. Hampshire & Co. Ltd.
RIVERSIDE WORKS, DERBY

Please Note Alteration in ADDRESS.

Cold Cream

IN POTS, TINS, OR BULK.

ABSOLUTELY DEPENDABLE.
BRINGS REPEATS EVERY DAY.

Lavender Ice

FOR CHAPPED HANDS

A QUICK WINTER SELLER.

ALSO

Lanoline Cream, Lip Salve, Camphor Ice, Tooth Powders, Brilliantines, &c.

Samples free on application to

The Casson Chemical Co., Ltd.,
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Violiv

£1 15 2

outlay on a gross of Violiv Ice brings you trade to the extent of

£3 7 6

That represents a profit of 88% on outlay. And —VIOLIV ICE is a wonderful emollient—it is so good at its work that users never accept substitutes. That makes it a ready "repeater"—so bring it prominently before the notice of customers



will make them permanent friends at your store.

Send P. O. to-day for £1 15s. 2d. By return of post you will receive 1 gross tablets plus 3 dozen bonus free. It retails at the popular price of 4½d.—an easy price for an easy seller. It sells at sight—as it cures at night.

VIOLIV MFG. CO.,
26 Haymarket Terrace, Edinburgh.

Selling Agents for England & Ireland,
Pattinson & Mackie, Ltd.,
Albion House, 59 New Oxford St.,
London, W.C.1.

.V13 NorAd

A point of profit

PRICE'S REGINA SHAVING STICK



There's profit and prestige in "Regina." The profit on this widely advertised Shaving Stick is distinctly attractive. "Regina" sells readily and freely on its merits. May we send you details and free sample ?

PRICE'S, Battersea, LONDON, S.W. 11.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes : 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

½ Doz.	Ingram's Milkweed Cream	Retails 2/-	Price 8/6
½ Doz.	,, Velveola Souveraine (Face Powder)	,, 2/-	,, 8/6
½ Doz.	,, Zodenta Paste for the Teeth	,, 1/-	,, 4/4
¼ Doz.	,, Rouge, Light, Medium, Dark	,, 2/-	,, 4/4
½ Doz.	,, Perfume, 1 oz. assorted in fancy packages	,, 4/-	,, 18/-
	100 Guest Room Packages free.		£2. 3. 8

Shipped via Parcel Post Prepaid.



Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

White, bland, emollient, smooth and perfumed with real Otto of Rose. The Cream of Purity, Quality, and Reliability, & guaranteed never to deteriorate.



PRICES.
No. 7 Tube 4×¾, per doz. 5/-
P.A.T.A. 8½d.
No. 9 Tube 4×1, per doz. 7/-
P.A.T.A. 1/-

CHRISTY'S COLD CREAM
IN THE PRETTY "TWO-GREEN" CARTON. NEVER GOES RANCID.
THOS CHRISTY & CO., 4-12 Old Swan Lane, E.C. 4.

LOTOZONE
SHAMPOO DE LUXE
A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.
Full particulars on requ

TOILET PREPARATIONS
LOTOZONE TOOTH PASTE
LOTOZONE CREAM
LOTOZONE FACE POWDER
LOTOZONE POWDER PAPER

The new Shampoo Salesman, ready January 1st, 1920, gives full details of prices and profit.

THE EVAN WILLIAMS COMPANY, LIMITED, 18 Ogle Street, LONDON, W. 1.

For LARGE BUYERS For SHIPPERS

Good Toilet Goods

SHAVING STICKS, BRILLIANTINES, DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH POWDERS, DENTAL CREAMS, VANISHING CREAMS, SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE.

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

The Super Paste

If your wholesaler has not sent you sufficient advertising matter for window display, drop us a postcard and we will send you a good assortment, post free.

SOLE MANUFACTURERS & PROPRIETORS:
A. & E. CARRERAS, *Perfumers*,
Offices : 207 King St., Hammersmith, London, W.6.

Telephone :
HAMMERSMITH 600
Telegrams :
"ESOLINDOL, HAMMER, LONDON."

If you have any difficulty in obtaining the supplies you need of

CALVERT'S

Carbolic Tooth Powder

OR

Calvert's Carbolic Soaps

DISINFECTANTS and other SPECIALITIES,

WRITE TO

F. C. CALVERT & CO.
MANCHESTER - - ENGLAND.

"Newbery's"
FRANCIS NEWBERY & SONS Ltd

Dental Cream *of* Distinction

IN THE FOLLOWING FLAVOURS—

Formalin & Mint *Carbolic*
Oxygen *Smokers'*
Areca *Thymol*
Cherry

A first-class article, attractively packed — which cannot fail to bring repeats.

CHARTERHOUSE SQUARE, LONDON, E.C. 1

"Peach Bloom" Face Powder.

A high-class powder in various tints. Delicately perfumed.
On the P.A T.A., 7½d.



One gross will cost you **42**/- free delivered.
Cash with order.
Showcards and 3C0 Coloured Advertising Circulars with each gross.

Splendid Seller. BRITISH Make Throughout.

Every Chemist should take advantage of this unique offer.



Whitecross Baby Powder.

In smartly decorated tins, sprinkler, dome top.
P.A.T.A., **10½**d.
6/- per doz.
BRITISH THROUGHOUT.



Whitecross Tooth Powder.

3/6 and **5/3** per doz.
A specially prepared powder of excellent quality in decorated tins.
BRITISH THROUGHOUT.

The Whitecross Baby Powder and Tooth Powder have both obtained the Certificate of Merit of the Institute of Hygiene.

Antiseptic Tooth Paste.

In Collapsible Tubes. **5/3** per doz.
Each in carton.

"X" Tins in variety.

Write for List of dozens of other "Mone -producing" lines, &c.

THE
Chemists' Manufacturing Co., Ltd.
WITH WHICH IS INCORPORATED
SHIRLEY BROS.
Whitecross Works, Rockingham Street, S.E. 1

POUDRE DE RIZ



No. 3396.
ASSORTED ODOURS AND COLOURS.
7/- per doz.



ASSORTED ODOURS AND COLOURS.
No. 782. **7/6** doz.
No. 783. **10/6** ,,

SUBJECT TO USUAL TERMS.

Obtainable only from
WILLIAM TOOGOOD, LTD.
77 Southwark Street,
LONDON, S.E. 1.



WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C. 1

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.

	Per doz.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—

C. R. HARKER, STAGG & MORGAN, LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.1.

A Well-kept Hand is the Hall-mark of Refinement

Veldt Cream

LABEL-TITLE. COPYRIGHT

(Pre-war Quality)

The just-pourable Glycerine and Witch-Hazel Vanishing Skin Food without doubt is the best remedy for

CHAPPED HANDS

Secure supplies before the Bottle situation gets worse!

SPECIAL OFFER PAYING 40%
for Monthly Terms:-

With 1 gross 5d. Veldt Cream—
2 dozen 1/- absolutely free, carriage paid

With 6 dozen 1/- Veldt Cream—
2 dozen 1/- absolutely free, carriage paid

Complete set of Showcards with each order.

N.B. The 5d. size is a form of sampling and is always a forerunner to a regular sale for the larger sizes: it is regarded as a form of advertising also. The above terms would be impossible otherwise. Work it out for yourself and admit our faith in present loss for ultimate gain. WE HAVE THIS CONFIDENCE IN VELDT CREAM.

Orders executed in strict rotation by

THE "VELDT" LABORATORY, LOUTH, ENGLAND
or through
AYRTON, SAUNDERS & CO., LTD., LIVERPOOL

Special Offer to introduce

CRÊME RAYMET

A perfect non-greasy vanishing cream, most attractively packed and delightfuily perfumed—Crême Raymet makes an irresistible appeal to all those who value their complexion.

OUR OFFER: With each dozen Crême Raymet (28/- per dozen) we will send, free of charge, 250 dainty perfumed pocket calendars, printed with your name and address.

M.R.P.
3/6
a
Pot.
▪
28/-
per dozen.



M.R.P.
3/6
a
Pot.
▪
28/-
per dozen.

The illustration shows the style of packing—a dainty fawn-coloured earthenware pot, holding about 2-oz.—finished off with blue ribbon and attractive label in several shades of blue—each ¼ dozen in a "sales-compelling" show outer.

Crême Raymet is certain to become popular with your better-class customers—the cream is a really good one with a most fascinating perfume, and can be recommended with confidence—the profit is good, 1/2 on each pot sold.

Why not try a dozen in your window—they will add to its attractiveness—a postcard will bring them, together with the pocket calendars.

Raymet & Co., Ltd., 507-509 Harrow Road, London, W. 10.

TRADE MARK

"VASELINE" PREPARATIONS AND RELIABILITY

"VASELINE" Petroleum Jelly when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

CHESEBROUGH MFG. CO. (Cons'd.)

42 Holborn Viaduct - LONDON, E.C.1

Complete Price List of all the "Vaseline" Preparations will be sent post free on application.

P.A.T.A. 100%

ANTHONY LEIGHTON,

BEST SHAMPOO FOR CHILDREN,

Will earn more money for space occupied than any other advertised line, and it means an additional sale every time—6 doz. and 1½ doz. Bonus, Carriage Paid.

LEIGHTON LABORATORIES,
35 Gray's Inn Road, W.C.1.
(6d. packet gives 6 Shampoos).



3/9 DOZ.

P.A.T.A. 6d.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmansh p and prompt delivery. Ingredients supplied if desired at lowest market prices. Write stating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

All Chemists and Stores adjacent to **Theatres** and **Music Halls** shoul stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/9 per tin box (about 11 oz.) costs 15/6 per dozen carriage paid. **Cash with order.**

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD
The LEROZA THEATRICAL STORES, 71, 73 & 75 Cambridge St., Glasgow.

First-class Pharmacies are never without

SOTOL

Antiseptic Mouth & Throat Wash
Non-Carbolic Tooth Powder
Tooth Paste

From all Wholesalers or direct from

THE WESTERN DENTAL Mfg. Co., Ltd.
74 Wigmore St., London, W.1.
Laboratories—West Ealing, W. 13.
Advertising matter free on request. ***On the P.A.T.A.***



Replenish your Stock

now, for the New Year,

with guaranteed pre-war quality Icilma Cream

We guarantee that the supplies of Icilma Cream now being sent out are *absolutely pre-war quality*—the finest cream in the world.

If by any oversight you still have old or "war stock" on your shelves not up to this standard we will gladly exchange it for new stock—and pay carriage both ways.

So look to your stocks *now* and *get fresh supplies at once.*

Icilma

Cream

Price Lists and details of display terms post free on request.

Manufacturers—Icilma Company, Limited,
Sole Distributors—International Icilma Trading Co., Ltd., } 37, 39, 41, 43, King's Road, ST. PANCRAS, London, N.W.1.

T18—3/1/20

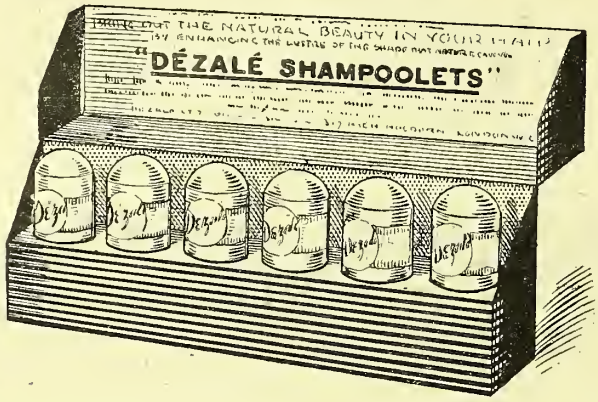
SOMETHING NEW that SELLS ITSELF!

We are going to advertise this line extensively. Order a stock **now** so that when **your customers** ask **you** for

"DÉZALÉ SHAMPOOLETS"

you will be able to supply them.

10d. each
RETAILS
1/3 each



3/8 per box of 6
RETAILS
5/6 per box

Special bonus for window displays. List on application.

Other DEZALE Specialities in the course of preparation. Orders to the value of £2 sent post free.

DÉZALE, LTD. - Showrooms and Offices, 317 High Holborn, W.C. 1.

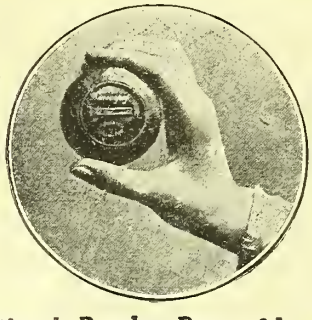
Phone: HOLBORN 1350.

MOUSLEY'S "BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality Brown Fur 3/11 each.



G. quality Grey Fur 4/6 each.

Additional Powder Bags, 6d. each.

Just out. Demand great.
Delightfully soft in use.
Superior to artificial Puffs.
Write for Prices and Terms

F. A. MOUSLEY

(MAKER)

Priest Bridge, Mortlake, London, S.W.14

Harrods Sale

OFFERS FROM THE DRUG SECTION

SIX DAYS ONLY—JAN 5 to 10

Lever's Easy Shaving Sticks *Harrods Sale* Per dozen **4/-**

McClinton's "Colleen" Shampoo Powders Loose *Harrods Sale* Per dozen **1/-**

Oatine Shampoo Powders Loose *Harrods Sale* Per doz. **1/-**

Cleaver's Shampoo Powders Loose *Harrods Sale* Per doz. **1/-**

Orilene Tooth Paste, in tubes Loose *Harrods Sale* Per doz. **6/-**

Harrison's Nursery Pomade Usual Price Per Pot 1/-, 6d *Harrods Sale* doz. **6/-, 3/-**

Fleur de Lys Shaving Soap, cakes or sticks *Harrods Sale* Per doz. **4/-**

Ratinol Usual Price, Each **3/9,** Per doz. **21/-** *Harrods Sale* Each **2/-,** Per doz. **12/-**

Bromo Paper, In original cases of 50 packets *Harrods Sale* Per case **70/-**

Gayetty Paper, In original cases of 50 packets *Harrods Sale* Per case **97/-**

Orders of **10/-** *and over carriage paid*

HARRODS Ltd, Brompton Road, London, SW1

COOK'S
DISINFECTANTS

ARE ALL RELIABLE GERMICIDAL AGENTS & ARE PUT UP IN ATTRACTIVE AND CONVENIENT PACKAGES.

WILL YOU SEND US AN ORDER FOR A TRIAL PARCEL TO-DAY COMPRISING THE FOLLOWING

LEADING LINES



"Cofectant" Fluid, in 8-oz. tins, at **10**/- doz. Retail Price, **1/3** tin.



For all Bactericidal Affections of the Respiratory Tract. Invaluable to Speakers and Singers. **10**/- per doz. boxes. Retail Price, **1/3** per box.





A Pure Triple-Milled Soap, containing a suitable percentage of Cofectant. Invaluable for preserving a Clear Skin from Blemishes, etc. **15**/- per doz. 3-tablet boxes. Retail Price, **8d.** per tablet.



"DECITAS" Fluid. A Good Household General Disinfectant Fluid. In 4-oz. bottles at **6**/- doz. Retail Price, **9d.** bottle.



A Fragrant Fluid for all Spraying Purposes. **8**/- doz. tins. Retail Price, **1**/-



Cook's Pure British LYSOL. At **14**/- per doz. bottles. Retail Price, **1/9** bottle.

BAN-FLU A delightfully refreshing and invigorating bouquet possessing the uncommon properties of a powerful germicide. For sprinkling on the handkerchief and clothes, etc. In Bottles @ **14**/- doz. to retail @ **1/9** each.

ALL SUBJECT TO USUAL TERMS.

EDWARD COOK & CO., LTD., BOW, LONDON, E. 3.

BRUSHES.

At this season of the year, Hair and other Brushes command a ready and profitable sale. The following items are recommended as good sellers and ready for immediate delivery from our stock—try an assorted parcel

HAIR BRUSHES—			
Satinwood back	12 rows	per doz.	**45/-**
,, ,,	11 ,, super quality	,,	**57/-**
Ebonised ,,	11 ,,	,,	**57/-**
Real ebony (stamped)	9 ,,	,,	**102/-**
,, ,,	13 ,,	,,	**108/-**
,, ,,	11 ,, deep cut	,,	**120/-**
SPECIAL LINE, ebony (unstamped)	9 ,,	,,	**84/-**
,, ,,	12 ,, shaped back	,,	**84/-**
,, satinwood	5 ,, whalebone	,,	**33/-**
Gents' military, ebonised	11 ,, without leather case	per pair	**7/-**
NAIL BRUSHES—			
Polished wood back	8 rows, bristle and fibre	per doz.	**8/6**
Perforated ,,	7 ,, ,,	,,	**10/6**
TOOTH BRUSHES—	Assortment	B	C
Bone handles	4 rows per doz.	**7/-**	**8/-**
Celluloid ,,	4 ,, ,,	**9/6**	
SHAVING BRUSHES—			
Bone handles, hog hair		per doz.	**14/-**
,, imitation badger		,,	**18/-**
,, real ,,		,,	**69/-**

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards.

OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

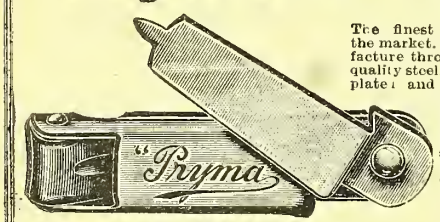
BURGE, WARREN & RIDGLEY, LTD.

91/92 GREAT SAFFRON HILL - - - - - - LONDON, E.C. 1

50% ON COST
33⅓% ON SALES

guaranteed by selling the

'Pryma' Nail Clipper



The finest Nail Clipper on the market. British manufacture throughout, of finest quality steel. Heavily nickel-plated and perfect finish. Delivery from stock, fastened 12 or 24 on card. Sells at sight, and gives satisfaction to Chemist and customer alike.

16/- doz. Fixed price 2/- each.

Write to-day for Sample Card

To be obtained from all the leading Factors, or from the Proprietors,

WARMINGTON, TURNER & CO.

11 QUEEN VICTORIA STREET,
LONDON, E.C. 4.

Telegrams: "Ocwarmitur, Cannon, London." Phone: Central 7851.

The Evan-Williams

Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.

ORIGINAL HENNA **SHAMPOO.**

NAIL

FILES, SCISSORS, CLIPPERS, INSTRUMENTS.

—TWEEZERS & FORCEPS.—

Special quotations to large buyers.

HENRY W. SCURR, HENRY RD., SLOUGH



LUNAR CAUSTIC POINTS & WART PENCILS

We are actual Makers of above for the Wholesale Trade and can give immediate supply in five Styles.

Ask for our Special **Wart Pencil**, with handsome Showcard.

M. J. FECHER, Ltd.,
Ilex Works, Northwold Road,
Stoke Newington, London, N.16.



To every Chemist, Greetings!



ONE way of ensuring that 1920 shall be a year of advancement is to make your resolution for the coming days the motto of thousands of satisfied Chemists everywhere: *"I will use*

'PYRAMID' CORKS."

A resolution that's not hard to form, and easy to keep.

GET A STOCK IN NOW, AND MAKE SURE OF A HAPPY NEW YEAR.

A Handshake to All our Friends.

N. W. MITCHELL & SONS, Ltd.

The Cork Firm, Limehouse, London, E.14.

To my friends at
Home & Abroad

Greetings!

That the New Year may bring health, happiness and prosperity to all, is the sincere wish of

THOMAS SWALES,

Druggists' Sundryman,

LEEDS.

M. H. Stiles & Son

(Proprietor : Harry W. Stiles)

desire to extend to their 7,000 brother Rexallites in England and Wales, Scotland, Ireland, Canada, and the United States of America their Heartiest Greetings and Best Wishes for a Prosperous New Year during 1920.

The Rexall Pharmacy, Doncaster.

SUTTLEY & SILVERLOCK, LTD.



Wish to convey to all their friends many thanks for past patronage and best wishes for prosperity in the New Year

BLACKFRIARS ROAD, LONDON, S.E.1

The Components of Good Printing!

When ordering your printing the three essential points to consider are:—

Quick Delivery,
Good Workmanship,
Reasonable Prices.

ALF. HARRISON & SONS make a special study of executing all orders upon this high standard of efficiency.

Positive proof of this can be realised upon your next order with us.

Alf. Harrison & Sons,
The Medical Printers,
224 BURLEY ROAD, LEEDS.
Telephone: No. 26674 *Telegrams: "Ideas Leeds."*

With the Best Wishes
of the
Elliott Optical Company
to their
Many Friends in the Trade
for a
Very Prosperous Year
in
1920

Elliott Optical Company,
(Guy E. Druiff, Propr.)
104/5 Great Saffron Hill,
LONDON, E.C. 1.

January 1, 1920.

"CARTWRIGHT" SERVICE

TO you all—Greeting! Peace and Increased Prosperity for 1920.

MOORLAND BRAND

TRADE MARK

Quality, Service, Price are governing factors of commerce by which we are ever willing to be judged.

Modern Ideas in Pharmacy are evidenced everywhere, the "Cartwright Display Method" ousted the Specie Jar and rendered the Cash Register necessary to deal with quick sales.

Increased output is just as necessary for the Pharmacist as it is for other businesses.

Our methods *do* increase output, we have proved it for others, let us prove it for you.

From the time your order reaches us we are never happy until the goods are in the hands of the consumer, and we do all we know to help you get them there.

That is part of the Cartwright Service.

Have you applied it to your business ?

If not, let us tell you more about it. Put us to the test. Catalogue, etc., with pleasure.

W. B. Cartwright, Ltd

RAWDON near LEEDS

Australia—
297-2 9 Castlereagh Street, SYDNEY.
326 Flinders' Lane, MELBOURNE.

New Zealand—
161 Hereford Street, CHRISTCHURCH.
Wright's Buildings, Port St., AUCKLAND



Mr. J. HERTZ

HERTZ & Co.,
9 MINCING LANE

Thanks the Trade for their support and confidence accorded in the past and hopes for its continuance in future.

A HAPPY NEW YEAR TO ALL

HERTZ & Co., *Offices* : 9 Mincing Lane, London, E.C.3.

Laboratory and Works: 20 Bevis Marks.

Telephone : Central 10607.

Season 1919-1920.

JENSEN'S

ICE-REFINED
NON-FREEZING, PURE
NORWEGIAN

COD LIVER OIL

From our own Fishing Station at Lofoten Island—refitted with improved Refining plant.

IN ORIGINAL TIN-LINED 25-gal. BARRELS. GALLON TINS, WINCHESTERS, AND BOTTLES.

Always in Stock.

JENSEN'S COD LIVER OIL EMULSIONS

JENSEN'S MALT and OIL

FOR NEXT SEASON

For Samples and Prices apply to the Sole Proprietors—

HERTZ & CO.,

Offices—

9 Mincing Lane, London, E.C.3

Laboratory and Works—

20 Bevis Marks, E.C. 3.

Telephone: 10607 *Central.*



HALIFLOR

9 MINCING LANE, LONDON, E.C.3.

Distillers of Natural Floral Extracts, Ground Essences, Soap Perfumes and Essential Oils.



SPECIAL LIST.

TO ALL PERFUME AND TOILET PREPARATION MAKERS.

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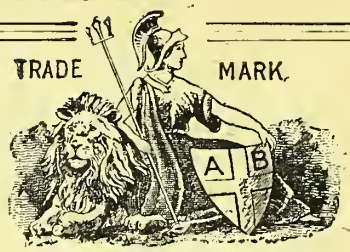
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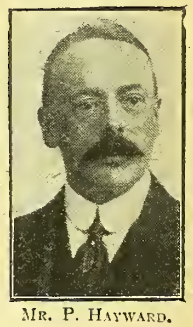

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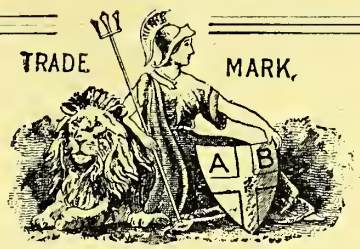

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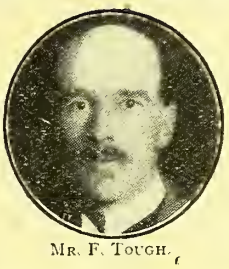

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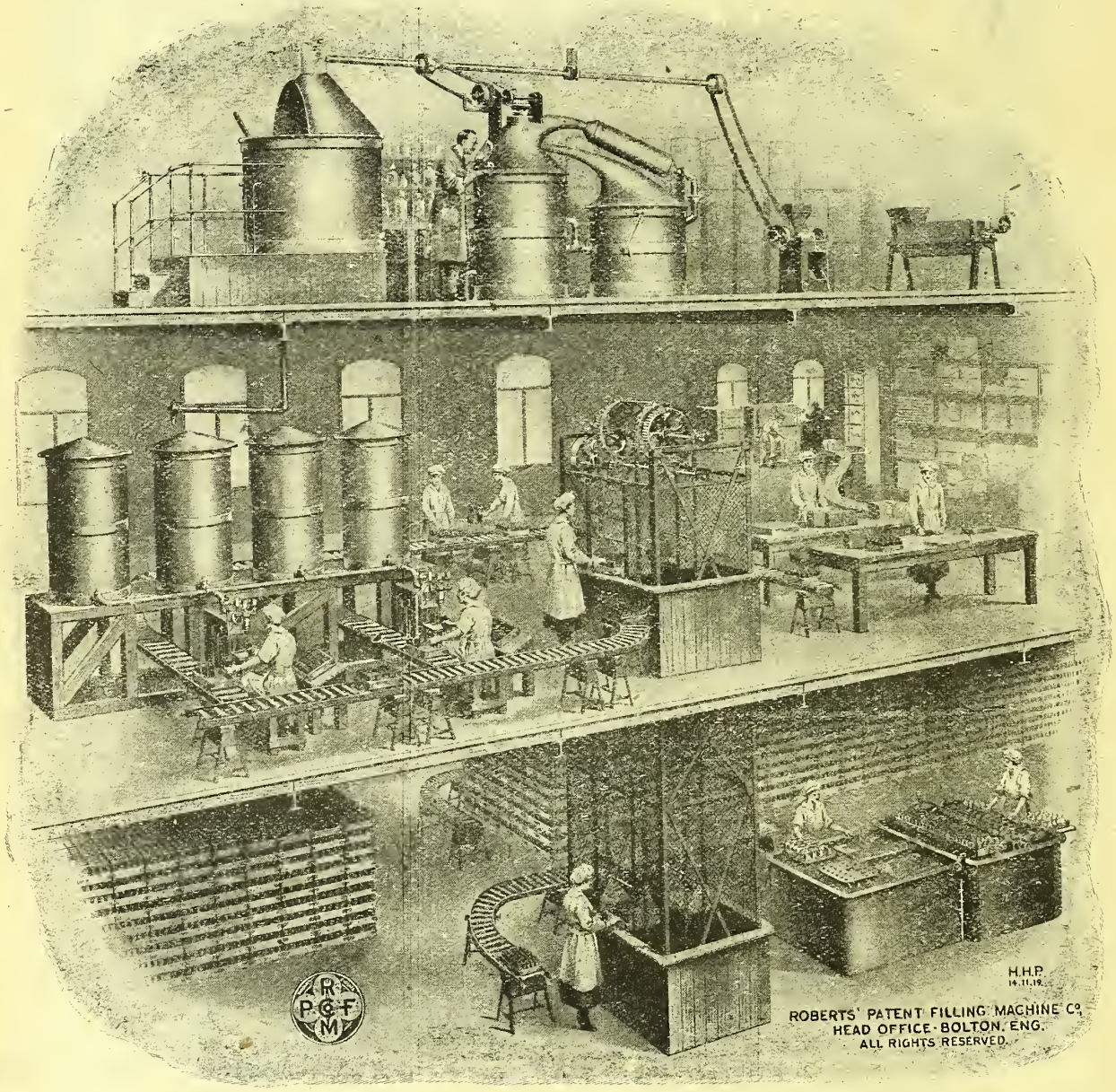
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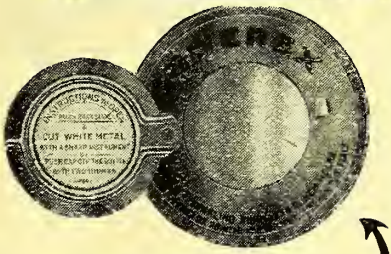
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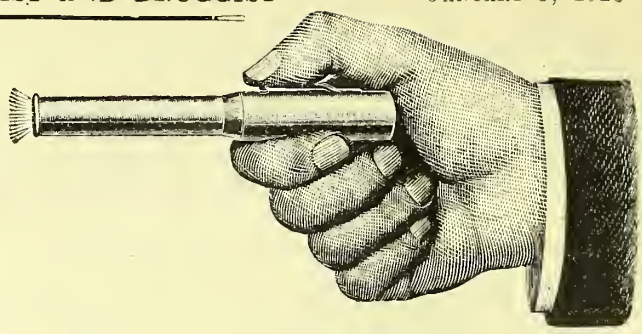
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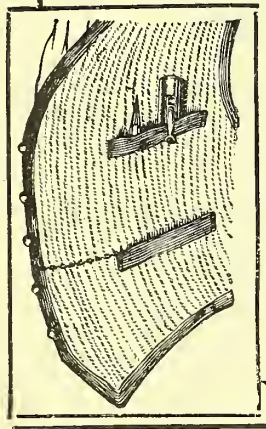
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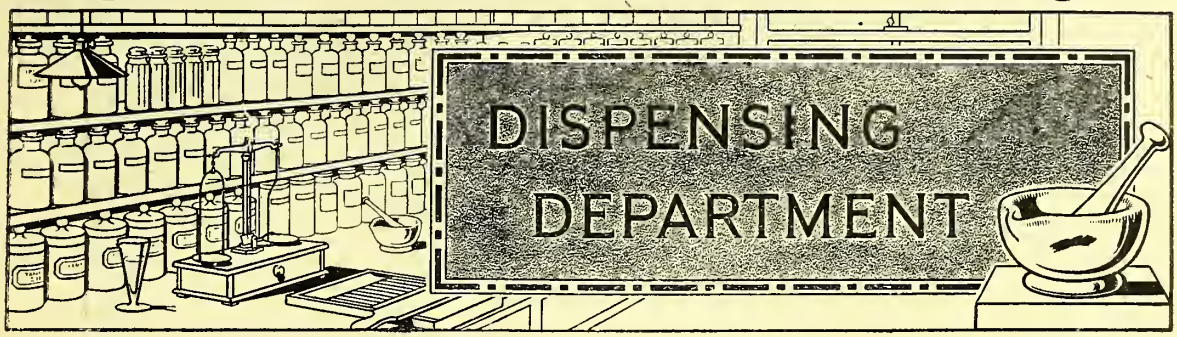
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The Chemist and Druggist Diary, 1920.

WE much regret the unusual delay in producing *The Chemist and Druggist Diary*, 1920, owing to the prevailing adverse economic conditions. The copies for Colonial and Foreign subscribers have all been despatched this week, and we hope to send out the Home copies immediately. Will our subscribers please exercise a little forbearance in the circumstances?

Index to Volume XCI.

THE index for the volume covering the year 1919 is in preparation. It will not be published with THE CHEMIST AND DRUGGIST, but when ready will be sent to any subscriber who intimates his desire to receive a copy. Postcard applications should be sent to the Publisher, 42 Cannon Street, London, E.C. 4. As on previous occasions, a certain number of copies of index will be reserved for applications from Colonial and foreign countries, so that all desiring to bind their volumes can complete them with the index.

INDIAN MONAZITE.—The production of monazite in India during 1918 amounted to 2,117 tons, valued at 58,819*l.*, compared with 1,940 tons, valued at 56,489*l.*, in 1917, an increase of 2,330*l.*, or 4.1 per cent. in value.

Experiences of the Great War.

Contributions to this section are invited.

XXI.—From Serbia to Baghdad.

IN 1914 I unsuccessfully tried to join up, but ultimately I was accepted as a dispenser to a typhus unit in the Balkans. After a few days at Salonika we entrained for Montenegro, and our stores, on reaching Ipek, had to be repacked in cases of about 50 lb. for transport across the mountains on ponies. When we passed through again on the great retreat all the cases had not been delivered. The ponies were flatshod and walked on the outer edge of the track, so that if they slipped they fell inwards. From Podgoritza, where there was a wireless station under a French officer and marines, who, on July 14 (France's Day), regaled us with bottled beer, I transferred to Serbia, and we were encamped in tents on the outskirts of the arsenal town of Kragejuvatz, where we had our share of bombing.

The staff numbered about sixty women, with seven men, four ambulance drivers, the *x*-ray man, a handy-man, and myself. The dispensary then was in charge of a lady, but I soon took it over, as she developed eye trouble and was sent home. Our pharmacy was under canvas and well stocked with drugs, dressings, tablets, etc.; another big tent for stores contained ample supplies of iodine, peroxide, etc. After the typhus was over we became a civil hospital and treated many diphtheria cases. There were six outside dispensaries, and the doctors and sisters used to come in for stores. In the early part of the war we exchanged with people at Belgrade for a break. When the really serious business commenced the Chief went to the "Pirot" front with the ambulances, and then we became the base hospital for the Second Division. The authorities had commenced building a hospital, with accommodation for 300, in which theatre, wards, etc., were very well designed. When the wounded began to arrive two beds had to serve for three men; and the succeeding contingents were placed on the floor on blankets between, and each morning all who could possibly get on their feet had to go to make room for others. Our staff was already quite depleted, as many, whom we overtook later, had left for home. The manager of the tobacco factory at Podgoritza offered to cut some Turkish leaves coarse for me, but it was not a success, as it smoked too quickly. The sisters were advised to smoke, and they had to rely on what was sent out from home, as the Serbian cigarette papers are not gummed. Our work went on for days and nights without ceasing, and then we had our orders to clear, leaving the patients with one Serbian doctor and nurse. It seemed dreadful to have to leave them there. Orders were sent to pack up everything valuable and forward it to another town for safety, but these goods were looted before we left, and my collection of native curios went "west." The incidents of the retreat are known to most, but I would like to say one word of praise for the way the British girls "stuck it," sometimes all day with only a biscuit and a cup of tea taken in pouring rain. We generally managed to find quarters for them, though the men would sleep in the open and in snow with perhaps three blankets between two. However, we got across Montenegro and Albania to Brindisi, and thence home by Italy and France, reaching London about three days before Christmas.

I was then offered a post at Salonika under the British Red Cross Society, but was away from home, so, later, I accepted another offer, which was for Mesopotamia. Arriving at Basra, I was stationed at the Red Cross Depôt for work on extra hospital comforts. The duties were very interesting, and when the Senior Assistant Surgeon and the Second went down with fever I took charge for a few days. The place was well arranged; wets, drys, vaccines, instruments, dressings etc., were all in separate parts and well looked after. The principal recreation there was duck-shooting up the Euphrates, and the colonel of 3 B.G.H., three other doctors, the padre,

and myself were the usual team. One doctor was a very keen ornithologist, and had a splendid collection of birds. After a brace of ducks for each mess the "bag" was distributed among the hospitals. The Red Cross launches did good work out there, and were stationed at different points to collect or transfer patients to the various hospitals or to the hospital-ship for Bombay. It seemed strange to find the old London County Council steamers out there fitted up as hospital boats for running up and down the Tigris. From Basra I went to Baghdad to open the new depôt, and this was an interesting trip. Unfortunately I had a slight heatstroke, so was transferred to Bombay, where I was sent to the hills for six weeks, and afterwards to "Blighty" once more.

Ex-Lieut., B.R.C.S. and Indian Order of St. John.
(79/85.)

Almanacs and Calendars.

Mr. A. Mortimer, dispensing chemist, 9 Leeds Road and 8 Cambridge Crescent, Harrogate, issues a wall calendar (11 in. by 5 in.) having above the tear-off portion a dainty colour-print entitled "Silvia."

Mr. Peter Fenton, F.C.S., D.C.O., chemist and druggist, Kirkcaldy and Cardenden, is distributing a wall calendar (12 in. by 7½ in.), the central feature of which is a view of his well-dressed window at the latter establishment.

The R. H. Heward Co., Ltd., manufacturers of surgical instruments and appliances, Twickenham, forward a dainty vest-pocket almanac (2 in. by 1½ in.), bound in leather, and containing general information that is frequently wanted.

Ilford, Ltd., 39 Roden Street, Ilford, send out a wall calendar (12 in. by 9½ in.), designed with excellent taste. A circular print above the tear-off portion consists of the portrait of a child, and forms a pleasing study, as well as a striking specimen of the company's products.

The Rexean Co., 141 Lord Street, Southport, issue a wall calendar (12 in. by 6½ in.), having as its centrepiece a colour-print in which roses are appropriately prominent. Copies are forwarded to members of the trade, post free, on application to the company's (new) address at Southport.

Walford & Co., Ltd., manufacturing chemists, St. Oswald Street, Collyhurst, Manchester, and 5 Newcomen Street, London, S.E. 1, issue a wall calendar (14 in. by 10¾ in.) well adapted for shop or office use, the figures being large and clear. This is one of the handiest calendars that we have seen.

Mr. H. M. Ashton, dispensing chemist, 63 Sankey Street, Warrington, sends out a wall calendar (11 in. by 5¼ in.) having as its centrepiece a photographic print of Shakespeare's Banquo—taken, we are given to understand, from the original—wearing a helmet and a coat of mail. Whoever this Banquo may be in daily life, the calendar is a tasteful and distinctive production.

C. R. Harker, Stagg & Morgan, Ltd., wholesale druggists, Devon Wharf, Emmott Street, Mile End, London, E., have issued a card calendar which measures 18 in. by 11 in. We gather from it the interesting fact that 1920 is the centenary of the establishment of this business. The front of the card, printed in gold and colours, has upon it reproductions of groups of specialities and a tear-off calendar. There is also given a portrait of the company's representative travelling the particular district in which the chemist resides who receives the calendar. On the back are given the proof-spirit conversion tables, conversion factors, and explanatory notes compiled in the analytical laboratory by Mr. F. C. J. Bird and printed in The Chemist and Druggist last week. This, we believe, will be a much appreciated feature, and by familiarising chemists with the simplicity of the process of calculating the rebate should lead to more claims being made—a practical method of promoting prosperity in 1920.

St. Lucian Oil of Bay.—The exports during 1918 amounted to 223 gals., compared with 616 gals. in 1917.

Revised Railway Rates.

In order to make up the present annual loss of something like 45,000,000*l.* on the running of the railways, it is officially announced that from January 15 freight charges will be increased on a graduated scale. The new charges, it is estimated, will realise an extra 50,000,000*l.* They show a very heavy increase on the existing rates, varying from 25 per cent. to 100 per cent., in many cases with the addition of a flat rate of from 3*d.* to 1*s.* per ton, irrespective of distance. Drugs, medicines, and other druggists' goods are grouped as merchandise in Classes 3, 4, and 5, and the increase is as follows :

(3) Merchandise in Class B of the General Railway Classification (other than patent fuel).	40 per cent. and a flat rate addition of 3*d.* per ton, irrespective of distance, subject to a minimum addition to the existing toll, rate, or charge of 6*d.* per ton and a maximum addition of 3*s.* per ton.
(4) Merchandise in Class C of the General Railway Classification.	50 per cent. and a flat rate addition of 6*d.* per ton, irrespective of distance.
(5) Merchandise in Classes 1 to 5 of the General Railway Classification.	60 per cent. and a flat rate addition of 1*s.* per ton, irrespective of distance.

For general purposes, it may be said that the rate on drugs has advanced by 60 per cent., plus the flat rate of 1*s.* per ton, as most of them are in Class 5 of the General Railway Classification. There is also a charge of 1*s.* 6*d.* per ton for collection or delivery by goods train. Other rates are as follows :

(10) Small parcels (as defined in Part VI. of the Railway Rates and Charges Orders) conveyed by merchandise train.	100 per cent.
(11) Returned empties conveyed by merchandise train or by passenger train, or other similar service—	
(*a*) Consigned from one consignor to one consignee and conveyed in full truck loads.	50 per cent.
(*b*) In other cases.	100 per cent.
(12) Merchandise and parcels conveyed by passenger train or other similar service (including perishable merchandise specified in Part V. of the Railway Rates and Charges Orders, Live Stock and Vehicles).	50 per cent.
(13) Traffic not falling within the foregoing descriptions conveyed by merchandise or by passenger trains or other similar service	60 per cent.

It will be seen that the "small parcel" scale has been increased by 100 per cent. when sent by goods train, and 50 per cent. when sent by passenger train. The 100 per cent. increase also applies to "returned empties." As a result of high prices, the small-parcel business has grown enormously, and the railway companies maintain that part of the congestion is due to this fact. The increase on "smalls" and "returned empties" will press heavily on the drug-trade, as a considerable proportion of the consignments are "smalls"—*i.e.*, 3 cwt. and under. Sir George Beharrell, Director-General of Finance to the Ministry of Transport, has intimated that the present revision is merely an interim one, and that the whole question of rates is to come under review in due course from a purely scientific standpoint. At the same time, the Railway Companies Association has intimated by memorandum that the increased rates and charges will remain in force for eighteen months after the expiration of the period of Government control.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Retail Business Licenses.

The "London Gazette," December 23, 1919, contains a notice that "Regulation 8AA shall be revoked." This ambiguous announcement refers to the regulation made under the Defence of the Realm Act prohibiting the establishment of new retail businesses or branches of any existing business without a licence. For a long time a large number of highly paid officials have been engaged on the business of licensing, which involved many inquiries and much expense. Now the whole system has been abolished, and anyone who wishes can open a new business or extend the scope of his present business without interference from Government officials.

Census of Production.

The announcement is made in the "London Gazette" that a census of production is to be taken in 1921 in a number of trades. These include shale oil mines and shale oil works; salt mines, brine pits, and salt works; spirit-distilling trade; sugar and glucose trades; chemicals, coal-tar products, and drugs trade; soap and candle trades; seed-crushing trade; and fertiliser trade. The census of production would have been taken in 1918, but a short Act was passed in 1917 postponing the census owing to the dislocation of industries caused by the war. Returns will not be required from persons, companies, or firms who do not employ on the average more than five persons, exclusive of officers of the company or members of the firm, during the year 1920, provided that signed declarations are made of the average number employed.

Contracts.

The following Government contracts have been notified:

ADMIRALTY.—*Soap.*—John Knight, Ltd.

MINISTRY OF MUNITIONS.—*Chemicals.*—Howards & Sons, Ltd.; May & Baker, Ltd. *Medicines.*—Lister Institute of Preventive Medicine.

INDIA OFFICE.—*Bismuth Carbonate.*—Howards & Sons, Ltd. *Cajuput Oil.*—Stafford Allen & Sons, Ltd. *Magnesium.*—D. W. Greenhough & Son.—*Potassium Iodide.*—Howards & Sons, Ltd. *Sterilisers.*—Arnold & Sons. *Tetanus Serum.*—Oppenheimer, Son & Co., Ltd.

CROWN AGENTS FOR THE COLONIES.—*Bismuth Subnitrate.*—Howards & Sons, Ltd. *Camphor.*—Whiffen & Sons, Ltd.—*Castor Oil.*—Premier Oil Extracting Mills, Ltd. *Cotton-wool, Lint, and Tow.*—T. J. Smith & Nephew, Ltd. *Linseed Oil.*—Stanley Earle & Co., Ltd.; Sir W. A. Rose & Co., Ltd. *Medical Equipment.*—S. Maw, Son & Sons, Ltd. *Potassium Iodide.*—Howards & Sons, Ltd. *Quinine.*—Howards & Sons, Ltd. *Surgical Instruments.*—Down Bros., Ltd. *Tinctures.*—Burgoyne, Burbidges & Co., Ltd. *Turpentine.*—Stanley Earle & Co., Ltd.; Price's Patent Candle Co., Ltd.

The following tenders have been accepted by the bodies named:

Cranbrook Guardians.—Mr. A. J. Gray, chemist and druggist, Hawkhurst, appliances.

Great Yarmouth Town Council.—Mr. H. Palmer, chemist and druggist, drugs.

Isle of Wight Guardians.—A. Millidge & Son, chemists, Newport, drugs; May, Roberts & Co., Ltd., A. Millidge & Son, and Timothy White Co., Ltd., sundries.

Warwick Guardians.—Mr. H. K. Cronsdale, drugs.

West Bromwich Guardians.—Ferguson & Co., drugs.

Liquor Traffic in Africa.

A Convention has been signed by Great Britain, Canada, Australia, South Africa, New Zealand, India, the United States, France, Italy, Japan, Portugal, and Belgium, restricting the importation of spirits to all parts of Africa, with the exception of Algiers, Tunis, Morocco, Libya, Egypt, and the Union of South Africa. The importation, distribution, sale, and possession are prohibited of trade spirits of every kind, beverages mixed with these spirits, and distilled spirits containing essental oils or chemical products which are recognised as injurious to health. Upon other distilled beverages an import duty will be levied of not less than 800 francs per hectolitre of pure alcohol (rather less than 30*s.* a gallon), except in the Italian colonies, where the minimum will be 600 francs, or about 1*l.* 1*s.* a gallon. Except in the case of limited quantities for consumption by non-natives, the importation, distribution, sale, and possession of spirituous liquors (excluding pharmaceutical alcohols) will be prohibited in those regions where their use has not been developed. The manufacture of distilled beverages of every kind, and the importation, distribution, sale and possession of stills and like appliances (other than apparatus required for scientific and commercial purposes) will be prohibited, except in the Italian colonies, where the manufacture of distilled beverages may be continued subject to a minimum excise duty of about 1*l.* 1*s.* per gallon.

Birmingham.

It is understood that there is a record number of students entering the Birmingham University medical school.

Mr. W. A. Wood, chemist and druggist, will shortly open a pharmacy at the corner of Upper Highgate Street and Conybere Street.

There are many complaints of delay on local railways. It is cynically asked whether goods are being held up pending the operation of higher rates.

Mr. H. Hague, chemist and druggist, Alcester Lane's End, King's Heath, has purchased the business of the late Mr. Arthur Blackbourn, 336 Gooch Street.

The staff of a large local manufacturing concern has started co-operative trading in food and clothing. The object is stated to be the defeat of profiteering.

Birmingham traders, including pharmacists, closed from December 24 to December 29. Suburban pharmacists gave evening attendance on the Saturday and Sunday.

A thousand houses are to be erected—quickly, it is believed—at Quinton, a recently added suburb of Birmingham. Pharmacy will, no doubt, be on the alert.

Branches of eucalyptus have been lately in evidence in the Market Hall and as a decoration for shop-windows. The assistants at the stalls appear to know both its name and its uses.

An article that has just appeared in a local paper concerning the hair will, no doubt, bring inquiries to the pharmacists of the district. It contains recipes for almost every ill that hair is heir to.

Rumour has it that a certain teaching authority of this city has handed to the secretary of the local Association a bill running into four figures. It is added that the secretary and his colleagues are not perturbed.

Mr. H. Buckingham, a well-known member of the Birmingham Pharmaceutical Association, was one of the pall-bearers at the funeral of the late Canon Hodgson, Aston, who was a personal friend of his. Canon Hodgson's tragic death created a painful impression in the district.

A customer lately appealed to a local pharmacist to examine a finger which was causing her much pain. She said that she had been receiving treatment from her family doctor for some time past—without result. The fact that with the pharmacist's assistance she put the matter right raises an interesting question as to why the doctor was unsuccessful.

Liverpool.

Pharmacists shared in a remarkable fillip of business on Christmas Eve.

It is understood that a large block of shops having a frontage near the old Haymarket has been purchased by a well-known co-operative society.

Soda water and black draughts have been in great demand during the past few days. One festive gentleman approached his pharmacist through the plate-glass window of an adjacent shop. That course cost him 20*l.*

At Liverpool Police Court, on December 30, 1919, a man named Schofield, employed at the Aintree Army Disposal Stores, was sentenced to six months' hard labour for being

in unlawful possession of opium and for stealing a syringe, together with cocaine and morphine in tablets, the property of the Government.

The Town Clerk of Liverpool has issued a notice, dated December 29, 1919, stating that a consignment of bone-handled imitation badger shaving-brushes has been found to be "dangerously contaminated with anthrax." The pattern number on the brushes is 1735, 2592, or 5238. Retailers having brushes of any of these numbers in their possession are requested to communicate with the medical officer of health at Municipal Buildings.

Manchester.

Manchester chemists are preparing to meet the increased demand for preparations used for the destruction of rats. Other traders besides chemists supply rat-poisons to the public, and if chemists wish to retain and increase their trade in that direction there is no time to be lost.

The appeal recently issued by the Manchester University authorities for 500,000*l.* to enable it to carry on its work has met with a splendid response, about 100,000*l.* having already been promised. The needs of the pharmaceutical department of the University should appeal to pharmacists and others in the drug-trade. Many ex-Service men are being trained there.

Many congratulations have been received by Mr. William Kirkby, M.Sc., Ph.C., on the success of his son, Mr. W. A. Kirkby, B.Sc., in gaining the degree of Master of Science recently at Manchester University. Mr. Kirkby, an ex-President of the Manchester Pharmaceutical Association, is a gentleman of whom all Manchester chemists are extremely proud.

Mr. J. Cleworth, pharmacist and photographer, is to give a lantern lecture entitled "War Photographs" to the Manchester Pharmaceutical Association on January 14. About eighty slides will be shown, illustrating events which took place in the Manchester military area during the whole period of hostilities. As official photographer to the three military depôts in the Manchester area, Mr. Cleworth had exceptional opportunities for making his selection, and his photographs will form a permanent record of Manchester's part in the Great War. For these reasons the lecture should prove unusually interesting.

The resignation of the chairman of the Manchester Profiteering Sub-Committee (Councillor Toole) is viewed with intense satisfaction by Manchester chemists and traders in general, who have long thought that the Profiteering Act, as applied, has been something more than a farce—a great injustice. The paltry and frivolous character of most of the complaints goes to show that retail chemists are not such robbers as some people would like to make out. The recent case in the Police Court against Westmacott & Son, Market Street, in respect to a clinical thermometer (not a sale, but only an inquiry for price) was dismissed (see p. 68). The local press, nevertheless, had "Chemist's 50 per cent. Profit" in glaring headlines.

Sheffield.

Mr. J. C. Ryves has purchased the property at 274 Sheffield Road, Tinsley, and has removed his business there.

Most of the local chemists decided, at the last moment, to make December 27 a partial holiday, opening in the morning and evening.

Mr. Charles Philip, chemist and druggist, proprietor of the "Standard" Retail-price List, has taken up his residence in Sheffield.

The Christmas trade, while quite good, showed a marked falling-off in the sale of expensive articles. The moulders' strike was largely accountable for this.

The number of Insurance prescriptions dispensed locally to the end of September 1919 is 294,261 (value 8,614*l.*), against 302,340 (value 8,895*l.*) for the same period of the year 1918.

Mr. J. G. Jackson, jun., son of Mr. J. Gilbert Jackson, Abbeydale Road, recently interested the Sheffield and District Wireless Society with a paper entitled "The Ether," in which he outlined past and present developments in the study of light, including the Einstein theory.

Miscellaneous.

In the Courts.—At Bow Street Police Court, London, on December 23, a hairdresser was fined 20*l.*, with 10*l.* 10*s.* costs, for selling safety-razor blades to which a false description—"Gillette"—was applied.

Shop-lifting in Wales.—Several cases of petty theft from shops occurred in Wales during the Christmas season, among the sufferers being Boots, Ltd., from whose branch at Newport, Mon., a 12*s.* 6*d.* bottle of perfume was taken in this way.

Drug-workers' Wages.—The National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks informs us that, as a result of negotiations with the Drug and Fine Chemical Manufacturers' Association, male employés are to receive an advance of 5*s.* a week, and female workers 2*s.* 6*d.*

Photographic Fair.—The Photographic Arts and Crafts Exhibition, in future to be known as the Photographic Fair, will be held at the Horticultural Hall, Westminster, from April 16 to 24, 1920. The last exhibition was held in 1914, subsequent exhibitions having been suspended owing to the war. The secretary is Mr. Arthur C. Brookes, Sicilian House, Southampton Row, London, W.C. 1.

Technology of Essential Oils.—Mr. C. T. Bennett, B.Sc., F.I.C., is conducting a special course of lectures on the chemistry and technology of essential oils, at the Borough Polytechnic Institute, Borough Road, London, S.E. 1. Mr. Bennett is a recognised authority on essential oils, and the course should be useful to many employed in the drug trade. The syllabus and particulars are obtainable on application to the principal.

Window-smashes.—While a motor-lorry was travelling, lately, through St. Botolph Street, Colchester, it struck the blind of a shop, which it carried away and drove through the window of Mr. W. Smith, chemist, completely wrecking it.—A similar accident is reported from Newport, Mon., where a horse out of control ran into the window of Mr. John Menhinick, chemist and druggist, Church Road, doing damage estimated at 100*l.*

Chemist Fatally Injured at Football.—An inquest was held at Bath on December 29, 1919, on the body of Mr. Clifford Walter Walwin, chemist and druggist, well known locally as a football player. The evidence showed that in the course of a game on December 27 he received internal injuries as the result of a collision with another player, and soon after midnight died in a nursing home. The jury returned a verdict of "Accidental death," and expressed deep sympathy with the relatives.

Potatoes Order.—A new order issued by the Food Controller prohibits the use of any potatoes which are fit for human consumption (except potatoes which will pass through 1¼-in. riddle) for any purpose other than planting or human consumption. Such potatoes may not be used for the manufacture of spirits or farina or for the manufacture of any article which is ordinarily used for any purpose other than human food. The order comes into force on January 1, and does not apply to Ireland.

Fires.—An outbreak of fire occurred on December 24 at the premises of the Ajax Aniline Dye Manufacturing Co., Ltd., 24-26 Verney Road, London, S.E. 16. The outbreak, which was attributed to the overheating of a drying-stove, was confined to the drying-room.—Considerable damage was caused on December 25 by an outbreak at the premises of J. & E. Barringer, Ltd., drug-grinders, Wallis Road, London, E. 9, about half of the ground floor and its contents being seriously affected. The occurrence was officially ascribed to matches.—An outbreak occurred recently at the premises of Hillwan, Gane & Co., Ltd., drug-packers, 103 Claybrook Road, London, W. 6, resulting in slight damage. The origin of the fire is uncertain.—On December 29 a slight outbreak took place in the basement of 25 Cannon Street, E.C., occupied by Pitt & Scott, Ltd., shipping agents. The cause was ascertained to be nitric acid, the fumes arising from which necessitated the removal of two men to hospital.

Irish News.

Brevities

Burglars visited the premises of Mr. Wm. Orr, R.D., Thomas Street, Armagh, during Christmas week; three watches and about 2*l.* in money were taken.

The strike of the chemists' assistants in Cork has been settled, and business proceeded normally during the Christmas period. Locally chemists had a remarkably busy time, but a rush similar to that of 1918 was absent. All shops were closed on Christmas Day, and several were opened for a few hours on Boxing Day. The usual hours of business were resumed on December 27, though trade was quiet during the holiday period.

Belfast.

The wholesale drug houses in Belfast closed for three days' holidays at Christmas.

Notwithstanding the assistants' strike the Belfast retail houses had an exceptionally busy Christmas season, several reporting that all previous records had been broken.

Dublin.

Hayes, Conyngham & Robinson, Ltd., Dublin, closed their local establishments from December 24 to 29, except for the dispensing of urgent prescriptions. The directors, through the Press, have thanked customers for their support and co-operation during the labour troubles. The following branches have been closed: Henry Street and Clanbrassil Street, Clontarf, Inchicore, and 66A Upper George's Street, Kingstown. The following branches, which were closed for a time during the strike, are now reopened: Grafton Street, Upper Baggot Street, Ballsbridge, Rathmines, Rathgar, Blackrock, 112 Upper George's Street, and 71 Lower George's Street, Kingstown.

In the Dublin Police Court, on December 30, before Mr. Lupton, K.C., John W. Burns, Ph.C., who stated he was in the employment of Mr. Toomey, Ph.C., Great Denmark Street, was charged with disorderly conduct in Grafton Street, opposite the shop of Hayes, Conyngham & Robinson, Ltd. Defendant conducted his own case. It was stated for the prosecution that defendant, who was in a picket on strike duty, on several occasions created an uproar in the thoroughfare. That morning a crowd of about 200 or 300 persons assembled outside Messrs. Hayes, Conyngham and Robinson's establishment, and the noise was so great as to make business impossible in the shop. Sir Thomas Robinson, who was present and gave evidence, said he did not want to be vindictive. Defendant stated he was out to create public opinion in order to force employers to adopt a reasonable spirit. He wanted justice and to get paid for his work. The magistrate said the other chemists' assistants were conducting their business in a proper way. A man like the defendant was a danger in the street, and he would remand him for a week in custody. Mr. Burns remarked that that would not make it easier to effect a settlement. After a short interval the defendant was again brought into the dock. The magistrate then said he would impose a fine of 40*s.*, and that if the defendant did not keep quiet he would be re-arrested. On refusing to pay the fine, Burns was committed to prison for one month.

Irish Assistants' Strike.

A meeting of the employers was held on December 27, and a fresh offer made to the assistants' union. This was submitted to an assistants' meeting, and although in its broad outlines it was considered satisfactory, the assistants would not accept certain minor details. Another scheme was accordingly drawn up and submitted to the employers with the suggestion that a conference should be held on December 31. The employers offers to negotiate on the wages of chemists' assistants, but the assistants ask that the wages question of all employés shall be discussed. The assistants also insist upon the reinstatement of all strikers.

Scottish News.

Brevities.

Mr. William Foster, of Bearsden, has been appointed representative of Ogston & Tennant, Ltd., soap and candle manufacturers, in succession to the late Mr. W. Grant.

Mr. Joseph Rosenzweig, chemist and druggist, 55 Nethergate, Dundee, presided, on December 24, at a reception given to the Chief Rabbi and the Vice-President of the United Synagogue of London.

The Royal Meteorological Society, London, S.W., is appealing, in the Scottish Press, to local students of nature to send records concerning the blooming of thirteen common flowers.

Miss A. H. MacWilliam, pharmacist, who has recently had experience at Alness, has been appointed manager of the branch shop of Mr. Peter Fenton, F.C.S., at Cardenden.

At a recent conference in Edinburgh between the executive of the National Union of Scottish Mine Workers and the Colliery and Public Works Surgeons' Committee, it was agreed that the rates for medical attendance be 3½*d.* per worker per week where no medicine is supplied, and 4*d.* per week where medicine is supplied.

Secretaries of pharmaceutical associations in Scotland have been asked to convene meetings of chemists to discuss the scale of wages and hours submitted to the executive council of the Scottish Federation by the Amalgamated Society of Pharmacists, Drug and Chemical Workers, and to request their members to form branches of the Scottish Federation.

On Christmas Eve the old custom of "bedding the relics" was carried out at Killin. The relics consist of stones and pebbles worn smooth by water. Every Christmas Eve the relics were "bedded" in straw, rush, and wrack not cut by hand. St. Fillan used them, it is said, to massage suffering human beings, cattle, and sheep. Miraculous cures were attributed to this action, and the blessing of the saint; and once a year the relics were carried in procession.

Glasgow.

In the High Court, Glasgow, on December 26, after a three days' trial, Frederick Keller, chemist, 489 Dumbarton Road, Partick, and Jane Hudson, described as a nurse, were each sentenced to eighteen months' imprisonment for having procured abortion. The defendants had pleaded "Not guilty." It was shown in evidence that Keller had supplied a customer with "a black liquid," for which she paid 5*s.* a bottle. Professor Glaister gave evidence as to the contents of the medicine.

Chemists' Friendly Society.

The annual report and statement of accounts of the Chemists' Friendly Society has been issued for the year ended June 29, 1919. It is mentioned that about 200 members have been admitted during the year, and that the number of members known to have joined the Forces is about 1,600, many of whom have made the supreme sacrifice. The retiring directors, Messrs. R. McAdam, A. G. McKay, J. B. McVitae, J. H. Smith, and J. Weir, are eligible for re-election, as also are the retiring trustees and manager. It is proposed that Messrs. Charles T. Cockburn and Thomas Guthrie, pharmacists, be nominated as additional trustees. The cash account shows that advances amounting to 2,748*l.* have been received from the National Insurance Commissioners; benefits granted amount to 530*l.*, and investments to 1,950*l.* The following note is appended to the abstract of accounts:

The reserve values applicable to all members over sixteen years of age at date of entry have now been notified by the Government actuaries. The sum available for credit to investment account to this date is 13,111*l.* 18*s.* 10*d.*, whereof 7,740*l.* 8*s.* 10*d.* has been invested in 5 per cent. War Loan stock and National War Bonds and 4 per cent. Funding Loan in names of the trustees of the Society; 5,369*l.* is invested in the Insurance Commissioners' investment account, 2*l.* is in bank in deposit receipt account, and the balance, 10*s.*, is in hand.

French News.

(From the "C. & D." Paris Correspondent.)

M. Joseph Lasnier, manufacturer of pharmaceuticals, died recently at his Paris residence, 24 Avenue de l'Observatoire. He was buried at Montparnasse cemetery.

Assistant Professor Douris has been appointed titulary Professor of Toxicology and Chemical Analysis at the Nancy School of Pharmacy, in succession to the late M. Guérin.

Hun Correspondence Not Wanted.—The eight "enemy" corresponding members of the Paris Academy of Medicine, whose names have been formally struck off its roll, are: Herrn Adamovicz, Benedikt, Erb, Unna, Filehne, Hirchberg, Schmieberg, and Kossel.

At the recent meeting of the Society of the History of Pharmacy, held at the Paris School, the election of officers resulted as follows: *Hon. President*, M. Henri Gautier (Director of the School). *Acting President*, M. Charles Buchet (Pharmacie Centrale de France). *Vice-Presidents*, M. Camille Bloch (Director of the War Museum) and M. L. G. Toraude. *Treasurer*, M. H. Gillet (Sub-Director of the Pharmacie Centrale).

M. L. Lafay, a well-known Parisian pharmacist, was "cited" by Marshal Pétain as having, during his captivity in Germany, obtained, at his own risk, documents relating to national defence. In 1916 M. Lafay received the collar of Commander of the (Russian) Order of St. Stanislas for services rendered to Russian prisoners in Germany, and was complimented by letter by the French Minister of War. He was mobilised as a first-class pharmacist-major.

The French Codex.—Dr. Desesquelle, member of the Permanent Committee for the revision of the French Codex, recommended the deletion of syrups of aconite, belladonna, digitalis, henbane, and stramonium from the next edition, on the ground that they are dangerous. Referring to the belladonna syrup of the 1908 Codex, he stated that a spoonful contains 2 centigrammes of the drug, which is excessive. The same criticism was applicable to the other syrups. M. Desesquelle's original idea was to abolish the formulas altogether, but the Committee did not agree, as any medicament not appearing in the current Codex can legally be dispensed according to preceding editions. He therefore proposes to modify the syrups in question, so that one spoonful will constitute one dose.

Vaccine for Dysentery.—At a recent meeting of the Academy of Sciences, Dr. Roux (Director of the Pasteur Institute) presented a paper by M. Kabeshima, a Japanese bacteriologist, on an anti-dysentery vaccine. It appears that Dr. Hérelle, of the Pasteur Institute, while studying the "Shiga bacillus" (the microbe of dysentery is named after the Japanese savant who discovered it) found in the intestines of convalescents a microbe which passed through the finest filters, but which possessed the curious property of disintegrating Shiga bacilli. M. Kabeshima, having heard of Dr. Hérelle's discovery, employed the invisible bacilli as a vaccine against dysentery. His experiments on rabbits seem conclusive, and it is probable that the new vaccine will shortly be tried on human subjects.

Strasbourg University.—The reinstatement of the University of Strasbourg as a centre of French learning and culture was an important and impressive event, at which President Poincaré, Marshalls Joffre and Foch, and numerous notabilities, were present. The ceremony took place in the Great Hall, hung, for the occasion, with priceless tapestries representing the victories of Louis XIV. M. Pfister reminded his hearers that Pasteur was among the eminent sons of the old French University. Many foreign Universities (Oxford and Cambridge, Liverpool and Aberdeen, Ghent and Louvain, among others) sent delegates to this unique festival. Two systems will for a time exist side by side; for the school will temporarily grant diplomas of pharmacy on the old (German) basis, as well as the usual French diploma.

The Sanitary Service.—A book entitled "A Page of History of the Military Sanitary Service," by Surgeon-Inspector Troussaints, contains several matters of interest to pharmacists. At the declaration of war it states that 2,318 pharmacists were mobilised. In May 1915 150 laboratories were founded to examine and analyse foods, etc., sold to troops in camps, and 200 new posts of pharmacists were created. The number of laboratories subsequently rose to 217. The permanent supervision of various central stores, from a pharmaceutical point of view, was entrusted to two pharmacist-inspectors, one an "Active," and the other a "Reserve" man. This control was rendered more efficient by the attachment of a principal Army pharmacist to each important medical staff; his province being to keep a watchful eye on drugs and similar stores, with a view to preventing the waste which was reported to have occurred in certain regions.

M. Georges Oudin, who was President of the Association of Pharmaceutical Students in 1905, tells a good story of how, as soon as the Armistice was signed, the chief German army surgeon at Metz took steps to send across the Rhine the huge stock of medicaments kept at the fortress. The zeal with which a Lorraine pharmacist hustled packing and forwarding operations convinced his German colleagues that some, at least, of the "annexed" had been converted to Teuton sympathies. They learned too late, however, that the goods had all been forwarded by a route which assured their interception by the French! To avoid incidents of this kind, many Alsatian doctors and pharmacists were sent to serve on Germany's Eastern frontiers. Unfortunately, the Poles often shared their dislike of German service, and a system of collusion was evolved whereby a large number of Polish soldiers were sent home on sick leave. One Lorrainer confessed to passing seventy-five such cases to Polish "Blighties."

Paris Society of Pharmacy.—At the December meeting M. Moureu presented the sixth edition of his "Fundamental Conceptions in Organic Chemistry," and a copy of the lecture he delivered at Strasbourg on "Lavoisier and his Successors." M. Grimbert read a paper by MM. Fleury and Hourvitz on the incompatibility of sulphate of strychnine with glycerophosphate and cacodylate of soda; and MM. Délépine and Dumesnil made some observations on the same subject. M. François spoke of his experiments with the organic compounds of mercury. The report on the prize essays was next considered, and the Committee's decisions were approved. A gold medal for a physical and chemical science paper was awarded to M. Dematte, and MM. Legeay and Wagner each received a silver medal for natural science. M. Bougault was elected Vice-President for 1920, and M. Bernier secretary. MM. Lacroix and Berthelot were elected as associates, while five French and two foreign corresponding members were nominated.

The University of Paris.—At the Sorbonne, on December 20, when Professor Greenish, among others, was awarded the degree of Doctor of the University *honoris causa* (*C. & D.*, 1919, p. 1501), the space below Puvis de Chavannes' fresco was filled with French professors in their official robes and grouped by Faculties. Marshal Foch was also present. The Rector and officials of the University entered later, preceded by the mace-bearers of the Faculties and of the School of Pharmacy. The principal speech was delivered by M. Lucien Poincaré, who paid eloquent tribute to the victims and the survivors of the war. He told how everyone in the University, from the professors to the humblest laboratory porter, had done his best for his country, and referred also to the bombardment which the Sorbonne and the School of Pharmacy had not entirely escaped. Proceeding M. Poincaré said: "We must shortly take stock of all that our mathematicians, chemists, doctors, and naturalists accomplished. Some made discoveries which will only be revealed later, but which will count among the finest triumphs of chemistry and physics."

The imports of chemicals into India from Japan during the year ended March 31, 1919, amounted in value to 404,297*l*.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

NATAL PHARMACY BOARD ELECTION.—The following chemists were elected on September 10 to serve on the Pharmacy Board for the next five years : Messrs. Morris W. Stranack, A. M. Fyvie, and D. S. B. Anderson. The Government nominees are Messrs. W. Elwin Marchant, Verulam, and Hessey Allanson, Maritzburg.

MR. FRANCIS CARTER, Vice-President O.F.S. Pharmaceutical Society, has been elected as the representative of the chemists and druggists of the province on the Medical and Pharmacy Council. This is a distinct acquisition to the examining body, as Mr. Carter is a pharmaceutical chemist of Great Britain and a thoroughly practical man.

HOURS OF CLOSING.—The Shop Hours Act of Natal was amended in July, thereby giving Town Councils and local authorities power to fix the closing hours of certain exempted trades, including chemists. The Durban Town Council, on petition from the chemists of the borough, have fixed the following hours : Week-days, 7 P.M. ; Saturdays, 1.30 P.M., reopening for one hour from 6-7 P.M. ; Sundays and public holidays, 10-11 A.M. and 6-7 P.M. The change from eight to seven o'clock will be greatly appreciated by Durban chemists, particularly since the amending of the Act, which now limits the working hours of the chemist's assistant to forty-eight per week.

BUSINESS CHANGE.—Owing to an increasing wholesale and manufacturing business, the firm of Stuart Jones & David Anderson, Ltd., Durban, have closed their retail department. Since the alterations made two years ago this pharmacy has been much admired as one of the most spacious and handsome in South Africa. The business was founded in 1896 by Mr. H. J. Brereton, now of Richmond, Natal, and was taken over by Mr. G. Stuart Jones in 1907. Two years ago a limited company was formed, with Mr. G. Stuart Jones and Mr. D. S. B. Anderson as managing directors, and their policy has been to develop the wholesale side. The goodwill of the dispensing department, together with the photographic developing and printing work, has been purchased by Wileman & Moore, of West Street, Durban.

COMMERCIAL TRAVELLERS' TAXES.—The following statement regarding the issue of licences to commercial travellers in South Africa has been issued : *Cape Colony.*—50*l.* per year for the first firm represented and 5*l.* per year for every other firm, or a maximum licence of 100*l.*, which covers any number of agencies. A licence can be taken out for the second half of any one year only (viz., July to December), at half the above prices, but this does not apply for the first half of the year. The above amounts are reduced by 50 per cent. when an agent has been resident in the country for three years. *Transvaal.*—10*l.* per year for any number of licences, or 6*l.* for the half-year, which can be taken out for either the first or second half of the year. *Natal.*—Same as for the Transvaal. *Orange Free State.*—20*l.* per year for any number of licences, but the licence can be taken out for three months only for 5*l.* *Rhodesia.*—30*l.* per year for any number of agencies. There is no preference given to representatives of British or Dominion houses. They all come under the term "foreign representatives." There is a further import licence for all firms importing goods over 1,000*l.* per annum, based on the turnover.

PHARMACEUTICAL SOCIETY OF CAPE PROVINCE.—A general meeting was held in the Society's room at Cape Town recently. There were present, among others, Messrs. S. W. Hill (President), A. Ross, J. R. Corrigan, W. Froembling, J. Main, S. Sachs, J. H. Harris, R. J. Rollnick, Young, W. Asher, T. J. Hughes, Webb, Cheetham, Roytowski, Sowden, Burton, and J. Sloan (secretary). The President welcomed Mr. Webb as a new member, and Mr. Young, who has returned to Cape Town. Mr. Hughes asked if the new rules passed at the last meeting were now in force, and was informed that they were. The President gave an account of a visit of a deputation from the Society to the Pharmacy Board, and read his memorandum to the Board, and their reply On the question of reciprocity of qualification for registration throughout the Union, the various Pharmacy Boards have the matter still in hand ; but a decision has not yet been reached. Mr. Rollnick was asked to give the meeting his views of the interview, and he was more optimistic than the President. He said that, in reply to his direct question whether the Board could take action against a qualified chemist protecting unqualified interests, Dr. Murray said that in his opinion they could do so. Mr. Rollnick said that a doctor or dentist could not act as cover to a company owing to section 13 of the Medical and Pharmacy Act, which he read, and said the Pharmacy Board had the same powers as the Medical Board under that section. He said that chemists should take up the matter seriously, and be prepared to contribute towards the cost of taking legal advice. He stated that chemists in the Transvaal and Free State were prepared to render financial assistance should it be required. Mr. Main also gave the meeting his impression of the interview. He was less optimistic than the previous speaker. He mentioned sections 8 and 3, and said he could not get the Board to amplify their resolution. Mr. Hughes then moved that a committee be formed to proceed with the matter on certain lines, the committee appointed being the same members who formed the deputation to the Pharmacy Board. This was carried.

COLONIAL PHARMACY BOARD.—Among the matters discussed at the last meeting of the Colonial Pharmacy Board was the question of qualified chemists "covering" companies trading as chemists and druggists. A deputation from the Pharmaceutical Society of Cape Province, consisting of Messrs. S. W. Hill, J. Main, and R. J. Rollnick, waited upon the Board to discuss in what way the Society could assist the Board to carry out the resolution of February 13, 1919, in respect of "covering." After the deputation withdrew the conclusion was arrived at that the best way in which the Society can help would be by reporting in writing any concrete case that appears to come under that notice, so that due inquiry may be instituted. It was further resolved to state, in reply to an inquiry as to whether the Society could assist the passage of the new Medical and Pharmacy Bill, that in view of the congestion of public business and an impending general election, the Board is unable to suggest any means of expediting the Bill. A letter was read from the Natal Pharmacy Board asking for the Board's opinion as to the possibilities of reciprocity between Natal and the Cape Province, in anticipation of the new Act for the Union. It was resolved to reply that the Board has power under the existing legislation to arrange reciprocity as regards the recognition of examination certificates, but has no authority to do anything in the direction of general reciprocity. A letter was read from the Transvaal Pharmacy Board suggesting the establishment of a Joint Examining Board for the Union for the Qualifying examination for chemists and druggists. It was resolved to reply that however desirable the proposal may be, the Board regrets that it is unable to find in the Acts of Parliament under which it is constituted that it has any power to enter into such an arrangement. A letter was read from Mr. H. E. Buxton, London, suggesting that the Board should approach the Pharmaceutical Society of Great Britain with a view to an agreement being reached for the reciprocal recognition of examination certificates for registration purposes. It was resolved to write to the Pharmaceutical Society of Great Britain stating that the question has been raised, pointing out the provision which exists in the present Act for the acceptance of their certificates in Cape province for registration purposes, and asking whether they will be prepared favourably to consider giving similar recognition to the examination certificates granted by this Board. Applications for registration received from Messrs. S. M. Lewis, F. G. Turner, J. Shagam, and J. C. Hutcheson were approved.

Colonial and Foreign News.

Seychelles Essential Oils.—In spite of the great shipping difficulties, the Seychelles essential-oil industry continued to develop steadily in 1918. In fact, it may be said to provide the most satisfactory outlook for the future of this colony. The market was good, and good profits were made. This industry helps to employ many labourers. The principal destinations were France, Rs. 312,084; Mauritius, Rs. 170,733; French Colonies, Rs. 70,600; and the United Kingdom, Rs. 49,271.

Indemnifying Hungarian Pharmacists.—During the *régime* of Bela Kun Hungarian pharmacists had to suffer many hardships in addition to actual losses through the innovations introduced by the Communist Government. To indemnify the pharmacists for the losses they have sustained a special Commission composed of three owners of pharmacies and three pharmaceutical assistants has been appointed to investigate each case and fix the amount of the indemnity to be paid by the State.

The Esthonian Pharmaceutical Society has appointed a commission to elaborate a code of laws regulating pharmacy in this new Baltic republic. It has been decided to require the Matriculation certificate from candidates entering the profession, and a three years' university course. Among the subjects are zoology, bacteriology, physiology, hygiene, technical chemistry, and the analysis of foodstuffs. M. Schricker (President of the Society) is the director of the pharmaceutical section of the Board of Health in the republic.

Assistants Scarce in Sweden.—The Medical Board has issued the following new regulations for the creation of a class of female assistants with a lower educational standard than that at present required (*C. & D.*, October 18, p. 48). They must undergo three years' training in a pharmacy, followed by a three months' course at the pharmaceutical institute, after which they will pass an examination in compounding prescriptions, materia medica, and counter sales. They are then qualified to undertake all the usual duties in a pharmacy, but will not be permitted to work, without supervision, in a pharmaceutical laboratory, nor can they take charge of a pharmacy. If they wish to become fully qualified pharmacists, they must pass the Matriculation and other examinations.

Pharmacy in Poland.—The Commissioner-General for the new Polish Provinces, including the parts of Prussia now ceded to Poland, has issued a decree regulating the practice of pharmacy in these territories. Permission to open a pharmacy may be granted not only to qualified pharmacists, but also to doctors, municipal and parish authorities, and to social organisations. In all cases the pharmacy must be managed by a qualified pharmacist. There is to be one pharmacy for every 7,000 inhabitants. The Russian Pharmacopœia is the official standard for the preparation and dispensing of all medicaments. The concessions granted by any of the former occupying Powers—German, Ukrainian, or Bolshevik—are declared null and void, and the owners of businesses whose concessions will be rescinded are allowed one month in which to liquidate their business and close the pharmacy.

Prohibition in Norway.—During the war the sale of all spirituous drinks and wines in Norway necessitated the production of a prescription, or of a permit from the police authorities, and was confined solely to pharmacies. One result was to increase the turnover of pharmacies about tenfold, and the salary of pharmacists has risen to 12,000 and even 18,000 crowns per annum. In spite of this, pharmacists object to being the sole purveyors of alcoholic beverages, and have even threatened to go on strike if no alteration in the existing regulations are made. The Norwegian people have now, by a referendum, decided in favour of a continuation of the existing war measures, so that the manufacture, importation, and trade in alcoholic drinks is totally prohibited. Recently the Government decreed that alcoholic hair-restorers, etc., must contain 0·3 per cent. of quinine hydrochloride, to make them unfit for consumption.

Czecho-Slovak Customs Tariff.—The Czecho-Slovak Republic has introduced a new Customs tariff applicable to all goods entering the territory of the new State. As it has not yet concluded any tariff agreements with other countries there are no preferential rates, and the charges to be levied apply equally to imports from all foreign countries. In some cases the duty is stated in French francs, which is reckoned at the fixed ratio of one franc=0.561 Czecho-Slovak crown. The following articles of the new tariff apply to pharmaceutical products:

No. 630. Prepared medicinal preparations, and all articles of which the inscription, label, wrapper, etc., points to their use as remedial agents, also for veterinary use; also all surgical dressings, cotton wool, prepared for remedial purposes. Duty per 100 kilos., 57 crowns.

Artificial sweetening agents have to pay in addition to the duty a licence fee of 1 crown per kilo. of sweetening unit.

Medicinal preparations (compound) containing over 15 per cent. by volume of alcohol are to be treated as compounded alcoholic liquids.

No. 151. Liquorice-juice, concentrated, in cases or in blocks. Duty for 100 kilos., 24 crowns.

No. 152. Grey amber, musk, castorum, civet, cantharides, cubebs, abelmoschus seeds, opium, oleum myristicæ expressum, cherry-laurel water. Duty per 100 kilos., 36 francs.

Rexall Convention.—"Rexall Advantages," the organ of the United Drug Company, devotes one issue to a report of the annual Rexall Convention, which took place in Boston, U.S.A., last year. The attendance numbered four thousand stockholders and friends, and included the following delegates from Great Britain: Sir Thomas Robinson, Dublin; Mr. E. Thompson, Liverpool; Mr. Edmund Carpenter, Bristol (directors); Mr. R. Garner (Thompson & Capper, Ltd., Liverpool); Mr. W. H. Richardson, chemist and druggist, Horsforth; and Mr. M. L. Daniels (United Drug Company, Liverpool). In the course of his presidential address Mr. Louis K. Liggett said the granaries and warehouses of Europe are empty, and so, too, are the shelves of the retail merchant. Until those granaries, warehouses, and shelves again contain their normal stock of merchandise, inflation is bound to exist and high prices to continue. Supply and demand governed commerce, therefore it is not the time for an able-bodied man to say "I will work but thirty-six hours a week." They could not work thirty-six hours a week and produce enough material to feed, house, and clothe the people of America, to say nothing of doing their share in relieving the distress of those people beyond the seas who fought their battles for two years before the United States entered the war. He said that the druggists of America have been more heavily burdened with taxes in proportion to their volume of business than any other merchants in the country, notwithstanding which the United Drug Company had succeeded in making its business profitable without profiteering. The volume of sales amounted last year to over twelve million pounds, an average increase of over 60 per cent. per year since the company was founded. Alluding to the progress made in the various departments of the company, Mr. Liggett said that the analytical department is under the care of Dr. E. C. Merrill, who was formerly in charge of the analytical work of the United States Government, and the company had also acquired the services of Mr. C. O. Ewing, formerly pharmacognosist and research chemist for the United States Bureau of Chemistry at Washington and Vice-President of the scientific section of the American Pharmaceutical Association. Mr. Ewing, with the assistance of twelve technical chemists, is working to improve the quality of Rexall pharmaceuticals and proprietary preparations and to discover new products. The company is completing a new factory for producing rubber goods at Newhaven, at a cost of half a million pounds, and the present manufacturing laboratories and warehouses in Boston are being duplicated in the city of St. Louis for the southern and western Rexall business. It was also announced that the United Drug Company intends to establish in Boston a college of commercial pharmacy.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of seven Chemists' Societies in Australia and New Zealand.

New Zealand.

KAURI-GUM OIL.—A New Zealand company is starting work on the production of oil from a deposit of kauri gum at Redhill, Northern Wairoa. From the crude product several fractions of oil are produced by further refining. About 15 per cent. is motor spirit, 15 per cent. is a powerful solvent oil, 30 per cent. paint oil, 30 per cent. varnish oils, and the remainder pitch. The oil is the pure product of kauri gum and the oil of the kauri tree.

"JEYES' FLUID" TRADE-MARK.—An unusual case was heard at Wellington recently, when Daniel Moar, trading as the Dominion Proprietary Company, was charged with having falsely applied to goods a certain mark so nearly resembling the trade-mark of Jeyes' Sanitary Compounds Co., Ltd., of 64 Cannon Street, London, as to be calculated to deceive, with intent thereby to defraud the said company. The prosecutor was Mr. Arthur C. Nottingham, for twenty-three years attorney in New Zealand for the Jeyes' Sanitary Compounds Co., Ltd. In January 1919 prosecutor had proposed to take civil proceedings against Moar, but after an interview defendant handed over 15,000 labels bearing the company's trade-mark, a block from which they could be printed, and two dozen bottles of fluid in stock. Defendant undertook not to sell fluid as "Jeyes'." On January 23 Hubert Michell Williams, chief clerk to the prosecutor, visited the premises of the Dominion Proprietary Co., when accused admitted that he was bottling Jeyes' Fluid and said he was drawing his supplies from Kempthorne, Prosser & Co. In March prosecutor took civil proceedings against accused for damages and for an injunction against selling a fluid purporting to be Jeyes' and bearing the trade-mark. It was again agreed that defendant should give possession of 15,000 labels and a block for printing the labels, but defendant continued to put up a compound which purported to be Jeyes'. Evidence was given that a gallon tin of Jeyes' Fluid was purchased from the Dominion Proprietary Co. in May for 12*s.* 6*d.*, and on September 8 accused was arrested. He said that the present labels had the words "Jeyes' Fluid," which he was entitled to use as they had not been registered as a trade-mark. On the premises were about thirty five-gallon drums of Jeyes' Fluid, which were not seized, as they were recognised to be genuine. For the prosecutor it was stated that Jeyes' Fluid was sold in five-gallon drums to Kempthorne, Prosser & Co. and to Sharland & Co. The label on a gallon tin produced was a facsimile of the genuine label on Jeyes' one-gallon tin. No person or firm in New Zealand except the prosecutor was supplied with Jeyes' Fluid in bulk. Kempthorne, Prosser & Co. sold five-gallon drums to the City Corporation and hotels, under an arrangement not to sell it to private individuals. If five-gallon drums had been sold to the defendant, Kempthorne, Prosser & Co. would have been wrong. The defence suggested in cross-examination was that large quantities of Jeyes' Fluid were sold to firms in London, and in violation of the agreement with the company some of the firms were shipping large quantities in bulk to the Dominion. Prosecutor would not believe that an Auckland firm had given an order to the defendant to buy five casks containing forty-two gallons of Jeyes' Fluid, or that defendant had obtained twelve one-gallon tins of fluid from Virtue & Co., who did not procure Jeyes' Fluid through the attorney. What the defendant had bottled was genuine Jeyes' Fluid, and evidence of the analysis of samples was given by Professor Easterfield. Stanley John Livingstone Hewitt, manufacturing chemist, Christchurch, had also tested the disinfectant. The magistrate held that the onus was on the defendant. A weak *prima-facie* case had been presented, but it would not be proper to dismiss it. The defendant should not have been arrested, but should have been proceeded against by summons. He was committed to the Supreme Court for trial, bail being allowed in a sum of 50*l.* and one surety of 50*l.*

Belgian News.

(From our Belgian Correspondent.)

M. W. DULIERE, Principal Inspector of Belgian Pharmacies, thinks that the idea of forming an International Secretariat of Pharmacopeias should be resuscitated and developed. The Belgian Government proposed such an institution before the war as a logical continuation of the work of the 1902 Conference, but it fell through, principally because Germany considered herself "sufficiently enlightened to dispense with foreign guidance."

A BRAVE BELGIAN PHARMACIST.—M. Woestyn (Thielt) has received the British War Medal in recognition of the valuable services he rendered to the Allied cause. With some other patriots he formed an information service for the British Army. Its existence was discovered by the Germans, and three of his collaborators were shot, while M. Woestyn and his daughter were arrested. As the Germans were unable to prove his guilt he was allowed to return to his home, after spending six weeks in prison.

BELGIAN MORPHINE DECREE.—The King of the Belgians has issued a decree regulating the traffic in cocaine, opium, morphine, and heroin. The sale of these preparations is forbidden, except by pharmacists or doctors and veterinary surgeons holding a medicine-chest. Importers and manufacturers handling these substances are required to keep a register with numbered pages, in which they will have to enter daily the amounts of each of these drugs received, or delivered, or used for manufacturing purposes. In the case of pharmacists, doctors, and veterinary surgeons they will be required to note in a special register every month the total amount of each of these drugs dispensed on prescriptions during that period. Pharmacists are forbidden to supply, for medicinal use, any preparation containing over 2 per cent. of opium, 0.2 per cent. of morphine or its salts, 0.1 per cent. of cocaine, or 0.1 per cent. of diacetyl-morphine or its salts, except upon the written prescription of a doctor, veterinary surgeon, or dentist. A renewal of a prescription of this nature will only be possible provided the prescriber has indicated thereon the number of times the prescription may be repeated, and the pharmacist will be required to note on the prescription, and on its copy, each instance in which it has been repeated, as well as in his prescription-book. Wholesalers and retailers holding a stock of one or more of these drugs are required to keep them in a locked room or cupboard, and keep the key in safe custody; a second key has to be kept in a sealed envelope at the disposal of the officials entrusted with the duty of controlling the proper observance of the provisions of this decree.

Coming Events.

Monday, January 5

National Association of Chemists' Assistants (Manchester Branch), Clarion Café, 50A Market Street, at 8.15 P.M. Special meeting.

Wednesday, January 7.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 7.15 P.M. Whist-drive and social evening.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 5.30 P.M. Council meeting.

Thursday, January 8

Amalgamated Society of Pharmacists, Drug and Chemical Workers (Retail and Public Services Branches). Slaters' Restaurant, Baltic House, 27 Leadenhall Street, London, E.C., at 7 P.M. Social evening. Tickets (including refreshments, 3*s.* 6*d.* each) from Miss L. Bridges, 34 Steeles Road, Haverstock Hill, London, N.W.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—A Cinderella dance will be held at the Midland Hotel, St. Pancras, London, on January 14, at 7 P.M. Tickets (10*s.* 6*d.* each) from Mr. B. R. Wilkinson, 23 Cromwell Place, South Kensington, London, S.W. 7. —The meeting arranged for January 8 has been postponed.

SOUTHPORT CHEMISTS' ASSOCIATION will hold a social reunion at the Queen's Hotel, Promenade, on January 15.

NATIONAL ASSOCIATION OF CHEMISTS' ASSISTANTS (BOLTON BRANCH). —A dance will be held on January 14 at the Baths Assembly Rooms. Tickets from members of the Social Committee.

SALFORD PHARMACEUTICAL ASSOCIATION.—The meeting arranged for January 8, at which Mr. P. F. Rowsell was to give an address, has been postponed to March 11.

Spanish News.

German Dyes for Spain.—The Spanish Minister of Commerce has requested all Spanish Chambers of Commerce and of Industry to ask members of the textile industries to abstain from making any more individual demands for dyes, and, instead, to form a syndicate, which will place a joint order in Germany and obtain the necessary export licences from the allied commission at Coblenz. The distribution of the dyestuffs is to be made afterwards by the Spanish manufacturers themselves.

Importation of Saccharin into Spain.—Under a law of December 24, 1903, saccharin and analogous substances are prohibited to be imported into Spain except for medicinal purposes. By way of exception to this prohibition, however, a recent Royal Order (dated November 17, 1919) authorises the importation of saccharin under prescribed conditions, for use in the manufacture of cigarette paper, subject to Customs duty at the rate of 50 pesetas per kilo. The sale of saccharin so imported and its use for any other purpose than in the manufacture of cigarette paper is absolutely prohibited.

Spanish Pharmacists Combine.—After recent strikes of medical men trade-union methods have been adopted, as a precautionary measure, by a number of pharmacists in Madrid who, at a meeting held at the Colegio de Farmaceuticos, Madrid, recently, formed the *Sindicato Profesional de Farmaceuticos* to promote their economic interests. Señor Erasolo, who presided, explained the objects of the scheme, and the rules were approved. One of the rules sets forth that the only weapon they had was their power to strike and to boycott. It was stipulated that an agreement should be reached with the organised medical men and the veterinary surgeons, so that only prescriptions signed by professional men belonging to the medical union should be compounded. The question was raised as to the right of pharmacists to reject prescriptions signed by non-union doctors. It was agreed that pharmacists are always obliged to dispense medicines, but that they could refuse all other prescriptions. The advisability of inviting military pharmacists to join the union and of asking the Ministry for War to restrict the use of the military dispensaries to army pharmacists was considered, but no decision was reached. Dr. Milla, speaking for the *Sindicato de Medicos*, offered to co-operate with the pharmacists to ensure the success of their claims. Señor Erasolo stated that they would continue to seek the adhesion of other pharmacists until the union represented a considerable majority, when a further conference would be held to formulate the claims for presentation to the authorities.

Reviews of Books.

Volumetric Analysis for Students of Pharmaceutical and General Chemistry. By Charles H. Hampshire, B.Sc. (London), F.I.C., Ph.C. Second edition. $7\frac{1}{2} \times 4\frac{7}{8}$. Pp. x+127. 5*s*. (London: J. & A. Churchill, 7 Great Marlborough Street, W.)

When Mr. Hampshire was demonstrator in chemistry at the School of Pharmacy of the Pharmaceutical Society he found the need of a book for students in volumetric analysis. The work under review was written to supply this need, and it embodies the ideas of several teachers on this branch of practical chemistry. The book is classified in a simple manner under (1) acidimetry and alkalimetry; (2) oxidation and reduction; and (3) precipitation reactions. In addition to chemicals, it is shown how the strength of pharmaceutical preparations such as sp. ammon. arom., acet. scillæ, liq. calcis sacch., liq. formaldehydi, liq. plumbi, vin. antim., syr. ferri iod., and aq. laurocerasi can be assayed by volumetric methods. There is a chapter on indicators, and at the end a series of miscellaneous exercises. Students will find Mr. Hampshire's work fulfils all their requirements on the subject of volumetric analysis.

Popular Chemical Dictionary. By C. T. Kingzett, F.I.C., F.C.S. $8\frac{1}{2} \times 5\frac{1}{4}$. Pp. 368. 15*s*. (London: Baillière, Tindall and Cox, 8 Henrietta Street, Covent Garden, W.C.)

Mr. Kingzett, well known as the inventor of Sanitas, is occupying his leisure in writing popular books on chemistry. Some time ago he produced a "Chemistry for Beginners" on novel lines. The present Dictionary has grown out of the short dictionary of terms which was given at the end of the little book on chemistry. It begins at abietic acid, and continues through the alphabet to zymase, hundreds of short monographs being given in popular language between those two articles. Many drugs are included, and in our view this part of the dictionary is not so carefully done as that dealing with chemical definitions. Agar-agar is not made from *Chondrus crispus*, but chiefly from seaweeds of the genus *Gelidium*. Alkanet is not obtained from "*Larsonia alba*," intended probably for *Lawsonia alba*, now generally called *L. inermis* and yielding henna. Black hellebore is generally understood to be *Helleborus niger*, not *H. hiemalis*. "Ipecacuanha, a substance used as an emetic, prepared from the root of certain plants growing in South America, etc.," and "Senna, a purgative drug made of the leaves of the shrub *Cassia acutifolia*, etc.," are examples of definitions which are badly expressed. There does not seem much wisdom in mixing alcohol and methylated spirit together (p. 11) for the purpose of preparing solid alcohol. Benzene (from coal tar) has a monograph, but we see no mention of benzin (from petroleum). We have no doubt that these and other defects will be rectified in the succeeding editions of what should be a very useful popular work.

Year-book of Pharmacy, comprising abstracts of papers relating to Pharmacy, Materia Medica, and Chemistry, contributed to British and Foreign Journals from July 1, 1918, *to June* 30, 1919, *with the Transactions of the British Pharmaceutical Conference at its fifty-sixth annual meeting held in London, July* 22 *and* 23, 1919. Edited by J. O. Braithwaite and C. H. Hampshire. Compiler of New Remedies Section, Thos. Stephenson. $8\frac{5}{8} \times 5\frac{3}{8}$. Pp. 519. 12*s*. 6*d*. (London: J. & A. Churchill, 7 Great Marlborough Street, W.)

The title-page quoted above gives the general scope of the "year-book," which has been issued annually since 1870. The plan of the work is very much as originally projected, but improvements have been made of late years in the classification of the abstracts. The chemistry section, for instance, is divided into parts dealing with alkaloids; animal products; bacteriological and clinical tests; colouring matters; essential oils; fats, fixed oils, and waxes; glucosides, ferments, and sugars; gums and resins; inorganic chemistry; organic chemistry (unclassified); and plant analysis. Other sections deal with new remedies; pharmacognosy; pharmacology and therapeutics; dispensing; galenical pharmacy; pharmacopœia revision; etc. The abstracts seem to us to be chiefly of American articles and are very well done, whilst the proof-reading is almost faultless. In turning over the pages we have noted one or two mistakes—*i.e.* on p. 246 we suspect Dakin's solution to be intended for "Duken's solution." The report of the Conference in London is a full one, and the papers, such as Berry's "Standardisation of Digitalis Preparations," are accompanied by illustrations which make clearer the authors' points.

"I like the advertisement of the food which claims to Build Bonny Babes. In Airtight Tins, 1*s*. 6*d*., 3*s*., and 7*s*. 6*d*. How the one-and-sixpenny babe must hate her seven-and-sixpenny brother. But it shows how far we have advanced since the days when the dairyman merely announced: 'Families Supplied in Bottles.'"—"Daily News."

The Profiteering Act.

Notes.

REPORT ON QUININE.

IT is officially announced that a report of the result of an investigation with regard to quinine, which is now in the hands of the printers, will be available in the course of a few days.

DRUGS SUB-COMMITTEE.

It is officially announced that evidence has been given recently before the Drugs Sub-Committee by "representatives of West End and East End retail chemists and of Messrs. Burgoyne, Burbidges & Co., Ltd."

ANOTHER COMMITTEE SUSPENDS SITTINGS.

The Bristol Profiteering Committee has unanimously passed a resolution stating that, in view of the delay on the part of the Central Committee in dealing with cases of alleged profiteering by wholesalers and manufacturers, and of the action of the Bristol panel of the Gloucestershire Appeal Tribunal in their interpretation of the words "a rate of profit which does not exceed a fair average rate of profit," the Bristol Profiteering Committee will take no action in investigating any further complaints under the Act until these matters have been satisfactorily disposed of.

Complaints.

BARNES.—At a recent sitting of the Profiteering Committee, a complaint was made respecting a charge of 1*s.* 6*d.* for making up a prescription, which the complainant had had made up at another chemist's in the district for 1*s.* 3*d.* The chairman asked if complainant had any reason to suppose that the chemist against whom he made the complaint was making profits in excess of those made before the war. Complainant said that he had no knowledge of what profits chemists made. He only knew that he had twice had the prescription made up by another chemist in the district for 1*s.* 3*d.*, and when he had it made up at the other shop he had been charged 1*s.* 6*d.* After some discussion the Committee decided that no *prima facie* case had been made out.

BOLSOVER.—At a recent sitting of the Profiteering Committee, Mr. E. Boulter, chemist and druggist, was the respondent in a case of alleged overcharge for Robinson's Barley, for which 1*s.* 4*d.* had been charged. Mr. Boulter stated that the wholesale price was now 13*s.* 6*d.* per doz., and he produced an invoice to show that for the consignment containing the tin in question he was charged 13*s.* per doz. The complaint was dismissed.

BRIGHTON.—At a recent sitting of the Profiteering Committee, a complaint was made concerning an offer of sale of 1 lb. of linseed at 1*s.* 6*d.* per lb. by Smithsons, Ltd., chemists, Preston Circus. Mr. G. S. Godfree, who represented the respondents, unsuccessfully applied for a hearing *in camera*. The complainant having supported his statement by giving evidence, Mr. Godfree called Mr. Russell, managing director of respondents, who said he looked at the book and distinctly told the complainant that his price was 1*s.* 3*d.* He did not admit having charged 1*s.* 6*d.* previously. Mr. Godfree pointed out that, unless there was an opportunity of adjusting a price, a trader might be at the mercy of a wilful assistant, and invited the Committee to find whether, in their view, the price asked was 1*s.* 6*d.* or 1*s.* 3*d.* On a show of hands the Committee considered it was 1*s.* 6*d.* Mr. Godfree then submitted a letter from Mr. Edgar Jones, secretary of the Brighton and Hove Association of Pharmacy, in support of his contention that the pre-war retail price of linseed was 6*d.* per lb. and the wholesale price 2⅓*d.* That, he said, showed a profit of 58⅓ per cent. The Committee had held that the retail price asked in this case was 1*s.* 6*d.* The wholesale price was 10*d.*, and that showed a profit of 43⅓ per cent., which was considerably less than pre-war profit. That being so, he was clearly protected by the proviso in Section 1 (2) of the Act, and the Committee were bound to dismiss the complaint. Having deliberated in private, the Committee adjourned the case in order that they might obtain further details as to the wholesale and retail pre-war prices.

CAMBERWELL.—The proprietor of the business mentioned in a recent case (*C. & D.*, 1919, p. 1461) is Mr. L. Stott, not as reported.

EDINBURGH.—At a recent sitting of the Profiteering Committee, a complainant stated that he had recently purchased a tin of solidified brilliantine from J. C. Pottage & Co., chemists, 115 Princes Street, at a cost of 1*s.* 6*d.* On going to the same shop later, and being asked the same figure, he asked for a receipt, and was then told that the price asked should have been 1*s.* 3*d.* The respondents were censured by the Committee, and were told that this being the second time that they had been before the Tribunal a serious view would be taken of any further case sustained against them.

GLASGOW.—At a recent sitting of the Profiteering Committee, Frazer & Green, Ltd., chemists, were the respondents in a case in which 2*s.* 6*d.* had been charged for a box of euonymin-and-cascara capsules, the complainant alleging that he had been in the habit of purchasing a similar box for 1*s.* 6*d.* Mr. D. M. McCracken, solicitor, instructed by the Scottish Pharmaceutical Federation, defended. The case was adjourned for a week in order that the respondents might ascertain the pre-war profit and the present profit. At the resumed hearing, on December 22, it was shown that the latter profit was the lesser. The Committee dismissed the case.—At the former of these sittings Frazer & Green, Ltd., were also the respondents in a case in which 9*d.* had been charged for a 2-oz. bottle of castor oil. Mr. McCracken, for the defence, produced the Scottish Chemists' Retail Price List, in which 9*d.* was the price given for this article, and a wholesaler's invoice. The case was dismissed.—At the same sitting a complaint was presented regarding the dispensing of a prescription by Frazer & Green, Ltd., who were alleged to have charged 3*s.* for a mixture that had been dispensed elsewhere for 1*s.* 9*d.* Mr. McCracken pointed out that the complaint had been lodged after the statutory period had expired, and the case was accordingly dismissed.—At the same sitting, Wilson, Macnie & Co., Ltd., chemists, were the respondents in a case in which 9*d.* had been charged (at their George Street branch) for a tin of White Cross Baby Powder. For the defence, Mr. McCracken, on behalf of the Scottish Pharmaceutical Federation, said that the article in question was in the list issued by the Proprietary Articles Trade Association, and that the retail price was 10½*d.* The cost price was 6*d.* Evidence was given on behalf of the company showing that the charge of 9*d.* was due to the mistake of an assistant, and it was mentioned that the protected price had been published in THE CHEMIST AND DRUGGIST. The Committee, after consulting in private, decided that 8*d.* should have been charged, and ordered a refund of 1*d.* Notice of appeal was given.

ILFORD.—At a recent sitting of the Profiteering Committee, a tradesman was ordered to refund 2½*d.* on a charge of 1*s.* made for 1 lb. of crushed linseed, the wholesale price of which was given by the respondent as 6½*d.* per lb. A prosecution was recommended.

LEWISHAM.—At a recent sitting of the Profiteering Committee, a complaint was made regarding a charge of 2*s.* 11½*d.* made for a piece of wash-leather, which it was proved had cost 2*s.* 6*d.* The complaint was dismissed.

NEW MALDEN.—At a recent sitting of the Profiteering Committee, three complaints regarding the sale of vinegar were heard. In the first case, it was decided that a charge of 5*d.* for a pint of vinegar "of a low standard" was not excessive; in the second, a refund of ½*d.* was ordered on a charge of 7½*d.* made for a pint of "malt vinegar"; in the third, a refund of 1*d.* was ordered on a charge of 6*d.* made for a pint of vinegar, the quality of which was not specified. The wholesale prices mentioned in the last two cases are to be reported to the Board of Trade.

SLOUGH.—At a recent sitting of the Profiteering Committee, a tradesman was ordered to refund 7½*d.* on a charge of 1*s.* 3*d.* made for a small stick of Vinolia

shaving-soap. The defence was that a mistake had been made. A prosecution was directed.

Walthamstow.—At a recent sitting of the Profiteering Committee, Mr. A. Chapman, chemist and druggist, Beulah Road, was alleged to have charged 3*d.* for ¼ lb. of bicarbonate of soda, which he bought at 3*d.* per lb., showing a profit of 300 per cent. Mr. C. H. Kirby, who appeared for the respondent, instructed by the Chemists' Defence Association, Ltd., said that a 1913 invoice showed that the price was 1½*d.* per lb., and Mr. Chapman sold it at 2½*d.* per ¼ lb., giving a selling price of 85 per cent., compared with 75 per cent. now. Other chemists wrote that they were charging the same price. Mr. Chapman, giving evidence, said that this was made up in small quantities. He had to give to customers directions how to use it. The Committee deferred their decision.

Willesden.—At a recent sitting of the Profiteering Committee, a tradesman was ordered to refund 1½*d.* on a charge of 10½*d.* made for 1½ pint of vinegar, and a prosecution was directed.

Wimbledon.—At the sitting of the Profiteering Committee on December 29, a complaint was presented concerning a charge of 1*s.* 7½*d.* made by Mr. Thomas, Wimbledon Park, S.W. 19, for 100 saccharin tablets, the cost price of which was given as 11*s.* 4*d.* per dozen packets. Mr. C. H. Kirby (Neve, Beck & Kirby) defended on behalf of the Chemists' Defence Association, Ltd. The Committee, after hearing the evidence, decided to adjourn the case.

Prosecutions.

At Manchester City Police Court, recently, Westmacott & Son, chemists, Market Street, were summoned at the instance of the Manchester Profiteering Committee for having quoted 6*s.* as the price of a one-minute clinical thermometer (*C. & D.*, 1919, p. 1398). Mr. Lustgarten appeared for the defence. Mr. J. Simpson, Messrs. Westmacott's manager, gave evidence that before the war the wholesale price of the grade of thermometer in question was 14*s.* per doz., less 5 per cent., and they were retailed at 2*s.* 6*d.* The price now was 35*s.* per doz. net. There were broken ones in every consignment. Before the war the profit on them was 55.66 per cent. It was now 51.4 per cent. Mr. G. Westmacott, pharmacist, was called, and was cross-examined at length as to the increased cost of carrying on his business, and the profits made. A chemist, he said, could not work on less than 50 per cent. profit. He had to sell a great many articles governed by the limitations of a Government stamp, like patent medicines, and he had to cover himself with articles which were not so limited in order to make a living. Several chemists carrying on business in Manchester were called, and agreed with the views expressed by Mr. Westmacott. Mr. Lustgarten having addressed the Court, the stipendiary magistrate said he thought that upon the evidence the defendants had proved that they had been earning a rate of profit which did not exceed the average earned by persons in the same business under pre-war conditions. In other words, they might take it that the evidence of the defndants was really uncontradicted, that nothing more had been made than before the war. On that ground the summons would be dismissed.

At Woolwich Police Court, on December 31, Mr. Arthur Goldthorpe, chemist and druggist, 70 Herbert Road, Plumstead, was summoned at the instance of the Woolwich Profiteering Committee for charging 4*d.* for 1 oz. of compound liquorice-powder (*C. & D.*, 1919, p. 1399). Mr. Frampton appeared for the defence. Evidence having been given for the prosecution, Mr. Frampton said that after the complaint was made his client made inquiries as to what other chemists were charging for this article, and in consequence reduced his price to 1½*d.* per oz. Defendant had carried on business without complaint for twenty-seven years, and was a member of the South Eastern Pharmacists' Association, which agreed to act on the price-list of "The British and Colonial Pharmacist." The October issue of this list gave the price of compound liquorice-powder as 4*d.* per oz. In June, defendant purchased a hundredweight of the powder for 95*s.*, which worked out at ¾*d.* an ounce, and, making all allowances, he submitted the defendants' gross profit by selling at 4*d.* an ounce was 78 per cent. Mr. Goldthorpe, in evidence, said he thought he was doing no wrong in charging the price given in the list referred to. His profit this year on liquorice-powder was 5 per cent. less than before the war. The magistrate said he had come to the conclusion that 4*d.* per oz. did yield an unreasonable profit, and imposed a penalty of 5*l.*, with 5*l.* 5*s.* costs.

Legal Report.

Genatosan Milk Contracts.—At Bow Street Police Court, London, on December 30, 1919, Genatosan, Ltd., Chenies Street, W.C., were summoned at the instance of the Ministry of Food for buying 34 gals. of milk by wholesale from W. J. May, farmer, Tragrest, Penzance, in June last, at a price exceeding the price applicable at that time in the South-Western area under the Milk (Summer Prices) Order, 1919. There were five other summonses against the same defendants respecting other purchases of milk. Mr. Roland Oliver, prosecuting, said that the defendant company were the English purchasers of the patent food formerly known as "Sanatogen" and now known as "Genatosan." It was manufactured at the defendants' works at Penzance, and large quantities of skimmed milk were used in its production. In order to obtain supplies they appeared to hit upon the device of offering the farmers prices largely in excess of those allowed by the Order. They took up the position that milk consisted of two parts, butter-fat and skim milk, and that if they bought the two separately they were not committing any offence against the Order. The percentage having been ascertained, the company paid for the butter-fat at the rate of 2*s.* 2½*d.* per lb., and for the skim milk at the rate of 6*d.* a gallon. By putting the two figures together the prosecution arrived at what they suggested was the price paid for the milk. In the case of Mr. W. J. May, it appeared that during June he supplied the defendants with 624 gallons, for which he received on an average 1*s.* 6*d.* a gallon, the controlled wholesale price at that period for that district being 1*s.* a gallon. The total quantity of milk purchased in the district by the company in June appeared to have been 90,000 gallons. Mr. May, called as a witness for the prosecution, confirmed counsel's statements. Cross-examined by Sir Archibald Bodkin: He had never sold his milk whole for consumption as such. Like all the other farmers in that district, he kept his cows solely for butter. Before dealing with Genatosan, Ltd., he used to sell his butter-fat to a butter factory. His arrangement with Genatosan benefited him principally in the summer months, when the controlled price was lower. On the other hand, in November the controlled price was 2*s.* 9*d.* a gallon, whereas the average price received from the company worked out at about 1*s.* 5*d.* Two officials of the Ministry of Food also gave evidence for the prosecution. Sir Archibald Bodkin, for the defence, said that, if there had been any *liaison* between the legal department of the Food Control and the really practical people who looked after matters, those proceedings could never have been instituted. Ever since the company had been carrying on their business in Cornwall their works had been visited every fortnight by an official of the Ministry, who had been kept fully informed of everything that was done. Letter after letter had passed, and interviews had taken place at which explanations were given, and the company had in every way endeavoured to act in complete accord with the requirements of the Ministry, and in compliance with the Orders. The company's arrangements had served the purpose first of maintaining the supply of butter in that part of England, and then of securing the skim milk necessary for the purpose, not only of Genatosan, but of a number of other residual products which were recognised by the Ministry as of the highest use in medicine and industry. Counsel had not concluded his argument when the hearing was adjourned to January 12.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

WALTON MEDICAL STORES, LTD. (P.C.).—Capital, 400*l*. Objects: To acquire the business of Mrs. Millie Walker, trading as "Walton & Co.," dealing in surgical and medical appliances and druggists' sundries, 85 Queen Street, Portsmouth. J. Walker is first director. R.O., 45 Donegall Street, Belfast.

APPAREIL MAGNETIQUE CO., LTD. (P.C.).—Capital, 4,000*l*. Objects: To take over the business of a company of similar name, and to carry on the business of medical electricians and magneticians, manufacturers of electrical, surgical, and calisthenic appliances, sports goods, etc. R.O., 2 Charterhouse Street, London, E.C.

SKINETOLIN CO., LTD. (P.C.).—Capital, 5,000*l*. Objects: To take over the business of the Skinetolin Co. carried on at 13 Kirkwood Road, London, N.W., wholesale, import, export, and retail dealers in perfumery, hairdressers' and druggists' sundries, bottles, brushes, etc. R.O., 13 Kirkwood Road, Chalk Farm, London, N.W.

KEMBALL, BISHOP & CO., LTD. (P.C.).—Capital, 400,000*l*. Objects: To take over all or any of the ordinary shares of Kemball, Bishop & Co., Ltd. (registered in 1901), and the undertaking of the said old company, and to carry on the business of manufacturing chemists, druggists, etc. Solicitors: Godden, Holme & Ward, 34 Old Jewry, London, E.C.

PHARMACEUTICAL PRODUCTS CO., LTD. (P.C.).—Capital, 2,000*l*. Objects: To carry on the business of manufacturing, wholesale, and retail chemists and druggists, drysalters, etc., and to adopt an agreement with H. R. Nightingale. The first directors are: H. D. Tollemache, South Beach, Felixstowe, Suffolk; and H. R. Nightingale, 9 Warrender Park Terrace, Edinburgh, manufacturing chemist. R.O.: 8 High Street, Linlithgow.

TAYLORS' DRUG CO., LTD.—The thirty-second annual general meeting was held at the Hôtel Métropole, Leeds, on December 29, when Mr. J. H. Armitage, the retiring director, and Messrs. Lee & Whitfield, auditors, were re-elected. It was reported that for the year ended June 30, 1919, the profits amounted to 32,981*l*. A dividend on preference shares for the year at 6 per cent. and a bonus of 1 per cent. was declared, also a dividend and bonus on ordinary shares for the year at 10 per cent. and 5 per cent. respectively. A bonus of 1 per cent. on debentures was also declared; 7,277*l*. was placed to reserve, and 26,753*l*., subject to excess profits duty, was carried forward.

GRAY'S CHEMICAL WORKS, LTD.—4 Broad Street Place, London, E.C. In pursuance of the provisions of the Companies (Consolidation) Act, a meeting of the creditors of the above company, in voluntary liquidation, was held on December 29 at the Institute of Chartered Accountants, Moorgate Street, London, E.C. The chair was occupied by the liquidator, Mr. A. N. Harper, C.A., 8 Queen Street, E.C. The shareholders of the company had previously passed an extraordinary resolution to the effect that the company could not, by reason of its liabilities, continue its trading, and that it was advisable to wind up the concern voluntarily. The chairman pointed out that the creditors had been called together in accordance with the Companies Act, and they could decide whether an application should be made to the Court for the appointment of another liquidator to act in his place, or jointly with him, or for the appointment of a Committee of Inspection. In answer to questions, the liquidator stated that he had not been able to prepare a detailed statement of affairs showing the position of the company. A receiver had been appointed to act on behalf of the debenture-holders in the company. After a short discussion, it was decided that the meeting should be adjourned in order that the liquidator should be given time to prepare a statement of affairs for submission to the creditors.

Birth.

KELLY.—At 48 Harcourt Avenue, Manor Park, London, E. 12, on December 24, 1919, the wife of W. G. S. Kelly, of a son.

Deaths.

BAXENDALE.—At Lancaster, recently, of pneumonia, the Rev. George Baxendale, B.A., B.D., B.Sc., Ph.C., aged fifty-two. Mr. Baxendale was the son of the late Mr. P. O. Baxendale, chemist and druggist, Congleton, and was in his father's business prior to entering the ministry.

BROWN.—At Stretford, Manchester, on December 25, 1919, Amelia, eldest daughter of Mr. Edwin Brown, chemist and druggist, 211 Brownlow Hill, Liverpool.

BUCHANAN.—At "Kenmore," Leven, Fifeshire, on December 26, 1919, Mr. John Buchanan, chemist and druggist, aged fifty-eight. Mr. Buchanan, who was a native of Leslie, served his apprenticeship with Frazer & Green, Ltd., Glasgow. He qualified in 1883, and subsequently opened in business at Cullen, afterwards removing to Leven. The Leven business developed rapidly, and eventually Mr. Buchanan acquired branches at Buckhaven, Methil, and Windygates. He is survived by a widow and two sons. The shops will be carried on under their present management.

NEESON.—Recently, Anna, widow of the late Mr. Andrew Neeson, M.D., late Aghalee, co. Antrim, and mother of Mr. Horace J. Neeson, pharmacist, 680 Romford Road, Manor Park, London, E. 12, aged ninety-five.

OSLER.—At his residence, Norham Gardens, Oxford, on December 29, 1919, Sir William Osler, Bart., M.D., F.R.S., Regius Professor of Medicine in the University of Oxford, aged seventy. Sir William Osler, who was born in Canada, was appointed to his Oxford professorship in 1905. His well-known "Principles and Practice of Medicine," first published in 1892, reached its eighth edition in 1912. He was also the editor of "A System of Medicine," in seven volumes, and of numerous monographs and addresses. The honorary D.Sc. and other degrees were conferred on him by several British, Colonial, and foreign universities.

WALWIN.—At Bath, on December 28, 1919, Mr. Clifford Walter Walwin, chemist and druggist (manager, Boots, Ltd., Union Street), aged twenty-nine. (See p. 60.) Mr. Walwin was the son of Mr. Walter Walwin, chemist and druggist, Southgate Street, Gloucester, and gained his early experience in pharmacy with his father and with Mr. A. W. Griffin, chemist and druggist, Bath. After a course of study at the Bath and West of England College of Pharmacy, he qualified in 1912. For the past few years he had been with Boots, Ltd. He was instrumental in establishing a local branch of the National Asscciation of Chemists' Assistants, of which branch he became secretary. During the war he gave his services as dispenser at the Bath War Hospital. He leaves a widow—who is well known, under the name of Madame Hilda Blake, as a vocalist—and one daughter. Widespread sympathy has been extended to them and to Mr. Walwin's parents in their sudden bereavement. The funeral took place on December 31 at Bath. There was a large and representative attendance, including the Mayor of Bath, Red Cross officials, and members of local football clubs.

Wills.

MR. HERBERT CHAMBERS, chemist and druggist, 11 Powis Villas, Brighton, who died on November 2, has left 4,411*l*. 10*s*. 8*d*., with net personalty 4,355*l*. 7*s*. 2*d*.

MR. HARRY FREDERICK SMITH, 13 Ravens Croft Avenue, Golders Green, London, N.W., a partner in Sangers, 258 Euston Road, N.W., who died on August 23, has left 5,256*l*. 10*s*. 2*d*., with net personalty 5,169*l*. 1*s*. 4*d*.

Trade Notes.

Dézalé Shampoolets is a new line advertised in this issue by Dézalé, Ltd., 317 High Holborn, London, W.C. 1.

The British Agents for Nestor Mouranchon, Paris, are A. Brezet & Co., Ltd., 19 St. Dunstan's Hill, London, E.C. 3.

Photographic Albums are the speciality advertised by Reginald E. Carter, Ltd., 12 Lower Seymour Street, Portman Square, London, W. 1.

Lotozone toilet preparations are made by the Evan Williams Co., Ltd., 18 Ogle Street, London, W. 1., whose announcement appears elsewhere in this number.

Nutritive Hair Tonic.—Evans, Gadd & Co., Ltd., Exeter and Bristol, in their advertisement in this issue, make a special bonus offer of nutritive hair tonic.

Industrie Chimique Lugano, Switzerland, are represented in the United Kingdom by Parker, Oxley & Naue, 53 Lime Street, London, E.C. 3. The company's specialities are malefern extract and rennet.

Brush Prices.—The Master Bone Brush Makers' Association, representing the chief bone tooth-brush makers in the country, give the revised wholesale selling prices now in force for tooth-brushes, which had been necessitated by the new minimum rates of wages and the increase in the cost of bristles.

Roberts' Filling Machines.—The striking advertisement in this issue of the Roberts' Patent Filling Machine Co. is intended to convey the numerous uses to which these filling machines can be put. The actual figures of the work accomplished at Goodall, Backhouse & Co.'s factory will be convincing to those who require proof of the advantages of the machines.

"Wellcome" Photographic Exposure Record.—We have received a copy of "The 'Wellcome' Photographic Exposure Record and Diary, 1920" (5½ in. by 3½ in.), bound in the familiar green cover. The convenient data and other aids of former issues are all retained, including the exposure calculator. The list of plates and films (beginning on p. 223) is longer than ever, and has been brought up to date by independent tests. There are three editions of the work—one for the Northern Hemisphere, one for the Southern Hemisphere, and one for the United States of America. The whole of the Northern Hemisphere edition has already been exhausted.

Season's Greetings.—The following business houses make New Year greeting announcements in this issue:

W. B. Cartwright, Ltd., Rawdon, Leeds.

Hertz & Co., 9 Mincing Lane, London, E.C. 3.

N. W. Mitchell & Sons, Ltd., Limehouse, London, E. 14.

M. H. Stiles & Son, The Rexall Pharmacy, Doncaster.

Suttley & Silvercock, Ltd., Blackfriars Road, London, S.E. 1.

Thomas Swales, druggists' sundriesman, Leeds.

Russolax.—In an announcement regarding the manufacture for the wholesale and export trade of Russian paraffinum liquidum answering the requirements of the British Pharmacopœia, the Silvertown Lubricants, Ltd., Minoco Wharf, West Silvertown, London, E. 16, explain the reasons why supplies have not been available since 1917. We were not allowed by the censorship regulations to refer in detail to the disastrous explosion of trinitrotoluol which occurred in January 1917 in East London, but it is permissible now to state that among the premises wrecked by the explosion were those of the Silvertown Lubricants, Ltd. Now, after three years, the works having been rebuilt, the manufacture of liquid paraffin has recommenced. The brand name of the product is Russolax.

St. Lucian Lime-juice.—The exports of concentrated lime-juice from St. Lucia during 1918 amounted to 31,890 gals., against 11,199 gals. in 1917; and of raw lime-juice 80 gals. was exported, against 12,177 gals. in 1917.

Personalities.

Mr. J. J. Booth (Booth & Co., wholesale druggists, Idle, Bradford) has been presented with a secretaire to commemorate the completion of eleven years' presidency of the Bradford Cricket League.

Mr. A. C. Vincent Weston (Menley & James, Ltd.), Farringdon Street, London, E.C., has been elected a Fellow of the Chemical Society. Mr. Weston is a pharmacist, and received his chemical training at the Pharmaceutical Society's School of Pharmacy.

Mr. Frederick Keeble, C.B.E., F.R.S., Sc.D., has been appointed Sherardian Professor of Botany in the University of Oxford, in succession to Professor S. H. Vines. Professor Keeble has in recent years been director of the Royal Horticultural Society's Garden, Wisley, editor of "The Gardener's Chronicle," and Controller of Horticulture at the Board of Agriculture.

Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd., Liverpool) writes, under date December 6, 1919: "I am now in the Pacific Ocean on my way to New Zealand. . . I wish so much you could have seen a pharmacy in Victoria, B.C., that I went through last week. I have visited pharmacies in many parts of the world, but never saw any so unique or remarkable. The proprietor, Mr. Duncan Campbell, is a mighty hunter of big game, and his pharmacy is decorated with most magnificent specimens shot by himself, including moose, bear, cariboo. . . He thinks nothing of a shooting expedition, accompanied by Indian guides, in the very midst of the vast forests of British Columbia."

Among the recipients of the public honours announced on January 1 are: Sir Bertram Edward Dawson, G.C.V.O., C.B., M.D., physician, London Hospital, a barony; Sir Richard Tetley Glazebrook, F.R.S., late director of the National Physical Laboratory, a K.C.B.; Sir William Gallagher, Commissioner of Customs and Excise, a C.B.; Sir Henry Birchenough, K.C.M.G., Board of Trade, a baronetcy; Mr. Alfred Frederick Bird, M.P., a director of Alfred Bird & Sons, Ltd., a knighthood; Mr. Thomas Neill, J.P., Ministry of Health, a knighthood; Mr. Francis Grant Ogilvie, C.B., Assistant-Controller, Trench Warfare Department (Chemical Warfare Department), a knighthood; Mr. Leonard Bromfield Rowland, J.P., chemist and druggist, Mayor of Wrexham, 1915-19, a knighthood; Professor Arthur Schuster, late secretary of the Royal Society, a knighthood.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

138/36. "Tonique Oriental"; proprietors.
137/10. Colyegatta substance for hair-wash.
133/73. "Konda," a preparation for cleaning silver.
137/15. Nurse Ella's enema.
127/21. "Limpet" corn plasters.
135/46. "Crystalax."
133/26. "Deleetie" for neuritis.
133/27. Exotic food.
134/24. Non-nicotine cigars (Dr. Kissling's agency).
138/25. Dichlorhydrin; supplies.
137/56. Swansdown for the manufacture of powder-puffs.
137/30. "Waldorf" paper in rolls and packets.
138/40. 'British Spa" bath crystals.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

"Ajax" hair restorer, 131/34
Arrheol capsules, 131/4
Bornyl acetate, 131/55
Chlorate of potash, 130/72
"Confellax," 130/20
"Dormigene," 125/69
Grinding and mixing machinery, 123/26
Hectargyre (naline), 127/10
Hydrofluoric acid (Belgian inquiry), 120/11
"Kerol" stomachic capsules, 132/31
Lasson's hair elixir, 121/68
Laxative bromo-quinine, 130/56
Menthol snuff, 130/18
"Morubiline," 117/47
"Quit," 115/44 and 125/2
Ribbons for perfumery bottles, 123/21
"Zink Pyn Specific," 58/25
"Zeno" specialties, 115/38

Observations and Reflections.

By Xrayser II.

Your Table of Profiteering Cases

brought against chemists, and the figures given by Mr. Bridgeman in the House of Commons, amply justify the declaration of the late chairman of the Manchester Profiteering Sub-Committee that the Profiteering Act is in effect a farce. Up to the end of November, out of a total number of 1,955 cases, 1,300 were summarily dismissed, and only twenty-four convictions had been sustained on appeal. The farce is, however, to be played until April 19, when, it is estimated, it will have cost the country about 75,000*l*. What it has saved individual consumers I do not know; but if your figures for the drug trade are typical, even those persons to whom refunds have been made have paid rather dearly for their whistle. Of course they have got a certain amount of fun out of it, but for the rest of the community the show is hardly worth keeping up. I presume it is kept up only as a sort of "hangman's whip, to keep the wretch in order," but even so it is a failure, for prices continue to increase, and profits with them.

The "Efficiency Magazine"

is a very smart production, if I may judge by the Special Convention Number, which has been sent to me. The Convention referred to is, of course, that of employers held in London on November 6 last, and the principal feature of this number is a synopsis of the speech of Mr. Herbert N. Casson on that occasion. Mr. Casson is witty and forcible, and his protest against Government interference with private businesses loses nothing from the fact that it is as full of merry humour as of biting satire. He says that what we need is not a business Government, but that Government should get out of business, of which it knows no more than a Basuto knows of astronomy, while what the Government needs is "a vote of thanks and a post-mortem." He declares every nationalised business to be bankrupt, supported by taxation; and that the "silly Profiteering Act" has effected nothing. In his own borough, out of seventeen cases, sixteen were dismissed, and one grocer was fined 2*d*. Government's own extravagance, he concludes, is the root of all the evil. There is a good deal of sense in all this, but some of Mr. Casson's figures are, I fancy, questionable, and his prescription for our financial ailments—unrestricted freedom of trade, a year's exemption from taxation, and a levy on land—is neither feasible nor calculated to set us on our feet again if it were.

A Contract,

surely, is an agreement between two or more persons: how, then, can an offer to sell be in itself a contract? Mr. Appleton, whose address at Sheffield on pharmacy law I am referring to, must, I suppose, mean that an article priced in the window is an offer to contract. Even so, could not the offer be withdrawn before an offer to buy has been made and accepted? To withdraw it might be accounted dishonourable, or even dishonest, but has it ever been legally declared dishonest? Mr. Appleton's doubt whether the use of the letters M.P.S. could be maintained in the High Court is disquieting, if well founded, and that not to the user only, for if the use cannot be maintained, is the misuse illegal?

The Most Interesting Feature

of Mr. Rutherford Hill's address to the Edinburgh assistants is the account he gives of the Scottish Society of Druggist Apothecaries, which will be new to most of his English readers. The rest of the address is in several particulars open to criticism. What he says of the Pharmacy Act of 1852 is a little misleading. It might be supposed that its purpose was the education, etc., of chemists and druggists simply as such, but as a matter of fact it did not refer to any but such of them as aspired to be pharmaceutical chemists. It might, indeed, be plausibly argued that the purpose of the Act was to force them into the Society, and certainly it ignores them except as feeders of the Society. Only by entering it did they come under the Act or share in any way in such privileges as it held out to them, among which, by the way, was *not* the right to style themselves pharmacists, for that word does not occur in the Act. (The word actually used is "pharmaceutist.") Mr. Hill's account of the Pharmacy Act, 1868, and its promotion by the Society, is also imperfect in a somewhat important particular. It may be true that the Society was moved to press for this Act because of the frequency of criminal or accidental poisonings, and that it strongly insisted that the only safeguard against them was the education of the vendor, but it is an acknowledged fact that the Society's own bill did not include any provision for this or any reference to poisons whatsoever, and was rejected by Parliament on that ground. This feature of the Act, whatever it may be worth to us, we owe primarily to the Bill of the rival Society, which provided both for the necessary regulations affecting the sale of poisons and for the education of the chemist. And there is yet another point on which Mr. Hill seems to require correction. He says the Society has never hesitated for a moment to deal with any matter germane to the business of a chemist and druggist. What, never? Surely he means, at most, hardly ever!

The Draft Medical Benefit Regulations,

from which you print extracts in your issue of last week, have been so extensively discussed that little remains to be said about them. Most of the changes introduced are, from our point of view, improvements, though they still leave something to be desired. The fact of most importance is that the terms of payment for our services have not yet reached even the draft stage, and such peeps behind the scenes as we occasionally get are not altogether reassuring; we can guess that a pretty stiff fight has been, and perhaps still is, going on, but we have lost so often in these encounters that we may be pardoned a little anxiety as to the ultimate result. Until we know it we must hope that the generalship on our side will prove to have been better than on previous occasions, and must leave our leaders in no doubt as to our action if they fail us. There are some verbal criticisms that might be passed upon these draft regulations. They contain about the usual amount of official jargon, and their sense is in some places open to question.

The Use of the Word "Clerk"

for "shop assistant" (that hateful Americanism) seems to be spreading in our own country. It has apparently taken root in Liverpool, and is met with occasionally elsewhere. It is much to be regretted, especially when, as in the mouths of "certain lewd fellows of the baser sort" (*lewd* here means, of course, no more than unlearned), it becomes *clurk*. I believe this pronunciation, too, is primarily American, though it is inconsistent with the American claim to have preserved more of our Elizabethan English than we have done at home.

The Questions Relating to Dosage

discussed by the French Society of Therapeutics are both interesting and important, especially those relating to maximum doses. An official maximum dose is obviously hampering to the prescriber if it can be used as evidence against him in cases of fatal results from larger doses. There are many cases in which official doses may be and require to be exceeded. I have known doctors who disregard them habitually, and though a Pharmacopœia without any indication of doses would be seriously defective, yet the fact that they are intended as a guide in ordinary cases is reason enough to justify a departure from them in extraordinary ones. Their greatest use is perhaps that they help the dispenser to check unusual doses.

MERTHYR TIDFIL GENERAL HOSPITAL, at which Mr. E. Edwards, chemist and druggist, is secretary of the executive, has been offered a temporary extension, with site, and a donation of 10,000*l*. towards a new permanent building.

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Editorial Articles.

Three Government Reports.

The forty-eighth and what is probably the last annual report of the Local Government Board before its absorption by the Ministry of Health has just been issued. On this occasion the term annual report is scarcely a sufficient designation of the volume, for, as it explains, reviews of work carried on during the five years' period of war are given, and there is also a *résumé* of the doings of the department from its inception forty-eight years ago. We are reminded that the existence of the L.G.B. has synchronised with a period of great progress in public health and in human endeavour generally, for, during the last half century, the national death-rate has decreased by one-third, and the potency of many virulent diseases has been notably reduced. One effect of the war was to check the progress of schemes for the treatment of tuberculosis. Steps are, however, now being taken to proceed with the deferred proposals, and the Treasury has been approached for a substantial increase in the amount of the capital grant. With regard to the treatment of venereal disease, progress is reported with the organisation of measures for the provision of free diagnosis and treatment. The schemes of 139 local authorities (out of a total of 145) have been approved, and a population of 35,000,000 people is catered for at 146 treatment centres, most of which are at general hospitals. Patients are reported to be offering themselves willingly for treatment at these centres: the number of attendances at the Nottingham Municipal Clinic amounted to over 13,000 cases in 1918, a total exceeded at only eight other centres. Already sixty laboratories have been approved for carrying out the pathological work necessary under the Regulations. The report on the Wassermann reaction made by the special committee of the Medical Research Committee was issued to local authorities, and to approved treatment centres, stating that for the purposes of the Regulations one of the four methods outlined should be adopted. Adequate supplies of approved British-made salvarsan at prices not higher than those charged to Government Departments are forthcoming, and the question of the post-war price of the eight brands is now receiving attention. With the sanction of the Treasury 8,000*l.* has been paid to the National Council for Combating Venereal Disease for publicity work. The number of whole-time venereal-disease officers appointed by local authorities amounts to seven; further additions will probably be made. It is observed with satisfaction that the number of cases of infectious diseases notified showed a reduction compared with the previous year. There is evidence of a growing dislike among the people to have their children vaccinated in the diminished numbers returned for the past five years. From the National Relief Fund grants amounting to 5,000*l.* were made to sufferers from the Silvertown explosion, and subsequently the Ministry of Munitions refunded 856*l.*

L.G.B. Report.

The fifth annual report of the Medical Research Committee (Cmd. 412, 4*d.*) gives an account of the Committee's activities in administering the Medical Research Fund during the year which ended on September 30, 1918. The Medical Research Fund was instituted in 1913, the funds being obtained under the National Insurance Acts. The sum of 50,000*l.* was originally allocated, and in the present year its value may reach 60,000*l.* "The Fund," it is stated, "should not be reckoned as a form of expenditure; it is rightly to be regarded . . . as

Medical Research Committee Report.

an insurance premium." An example of the truth of this statement is the fact that research work done in connection with heart disease in the Army saved, in one year, in a single Command, approximately the whole annual value of the Research Fund. After detailing numerous diseases requiring investigations, the report points out that these utilitarian considerations are given because of the importance they have upon better financial provision for research work. The relationship of the Ministry of Health with medical research is next taken up, and the report then details the achievements of individual departments. Among these are included the possibilities of separating cholera organisms into different serological groups; a study of members of the *B. coli* group and allied bacteria; and an investigation of conditions of "wound-shock." A paper is forthcoming on the chemical basis of the immunity reaction and the dual property, which the posterior lobe of the infundibular body possesses, of raising the blood pressure and of contracting the uterine muscle actually due to two principles which can be separated by chemical means. The fate of trinitrotoluene in the organism, the effect of exposure to low oxygen pressure, and the biological testing of the various preparations of salvarsan and neo-salvarsan were urgent problems which were successfully investigated. Economic problems, for example that of the ventilation of factories and the prevention of lassitude among the workers, have been elucidated with gratifying results. Studies in photo-synthesis have been continued, and the fallacy of the "ozonised" air receives its death-blow in the announcement that the so-called active oxygen is nitrogen peroxide, formed probably by the action of ultra-violet light on nitrogen and oxygen. Investigations carried out during the influenza epidemic seemed to show that gases like nitrogen peroxide and sulphur dioxide had an inhibiting effect upon the micro-organisms in the naso-pharynx, and methods have been devised to utilise the former gas as a preventive of common infections. Much work has been done on the pathology of infection in tuberculosis, bacillary and amœbic dysentery and typhoid and paratyphoid infections. The study of antiseptics, which may be said to have undergone a revolution during the war, has been continued, and the dreaded condition of gas gangrene resulted in the preparation of a serum calculated to act both as a preventive and a curative agent. The influence of vitamines on nutrition is a subject of more than passing importance, and experts have been sent to Eastern Europe to study the effects of food deficiency among the children there. Already assistance has been given to those measures of relief instituted by this country and by local organisations. An interesting note under bacterial chemistry is given on the action of bacteria on substances of known constitution, and a report dealing with the formation of oxalic acid from sugars in the metabolism of *Aspergillus niger* will shortly be published. Acknowledgment is made of the voluntary help extended by the special investigation committee and to the fact that the report is only a summary of the research work undertaken by individual workers in almost every University or centre of medical research in the country. The committee expresses the hope that every effort has been made for the maintenance and preservation of whatever was most valuable in the work instituted under the stimulus of war. To judge from the report, these efforts are in a fair way to succeed.

The report of the work of the Government Chemist for the year ended March 31, 1919, was issued last week.

THE GOVERNMENT CHEMIST'S REPORT.

It contains several items of interest to our readers, as may be expected in the report of an official who acts for so many Government Departments. The number of samples examined was 289,180—an astonishing number, to which one is only reconciled by the fact that the greater part are simple estimations of one ingredient. Interesting questions have been raised as to the liability of mineral and spa waters to table-water duty. It appears that of six samples five proved to be medicinal, and only one liable to duty. One herbal preparation, which the manufacturers claimed was not a beverage, but a *bona-fide* medicine, proved to be sufficiently medicated to exempt it from table-water duty. Of forty-two samples of "non-alcoholic" wine examined, twelve contained over 2 per cent. of proof spirit. More than one thousand papers were dealt with relating to applications received by the Commissioners of Customs and Excise, either (1) in respect of claims for rebate on alcohol used in making medicinal preparations, or (2) in connection with permission to receive methylated spirit and other forms of duty-free alcohol for use in manufactures, tuition, and research. In the former instances advice was required as to whether the claims in question were such as could properly be allowed under Section 4 of the Finance Act, 1918. The other references were sent chiefly for advice as to whether the purposes to which it was proposed to put the alcohol were, from the chemical point of view, such as to justify the granting of the particular indulgence asked for. Ten samples of saccharin products were drawn for the purpose of assessing the amount of drawback payable on exportation, and 165 samples of saccharin and of the materials used in its production were examined in connection with the assessment of duty. Twenty-two samples of medicines, or articles offered for sale as medicines, were examined in connection with questions of liability to medicine-stamp duty. The samples included pills, powders, herbs, liniments, oils, and other remedies. In addition, thirty-five other samples of medicinal articles were analysed in order to establish their identity or their medicinal character, or in connection with export prohibitions and the opium and cocaine regulations. Twenty-six samples of sheep-dips were received for examination in connection with applications by manufacturers for inclusion of their preparations in the official "Schedule of efficient dips." Before the Board of Agriculture give their approval to any dip they must be satisfied that the formula provides for a sufficient quantity of a recognised active ingredient, and that the dip has been made in accordance with the formula. In fifteen cases the samples were found to agree with the formulæ, and were of effective strength at the proposed dilution; six were deficient in active ingredients at the dilution submitted by the makers; in the remaining five cases the formulas required modification to ensure an efficient dip. Four samples of approved dips, obtained in different parts of the country, were also examined with the object of ascertaining whether the dips as sold or used correspond in composition with the samples which had received the Board's approval. The analyses showed that one of these had not been prepared according to the formulas previously submitted and approved. A sample of "coal saver" examined for the Coal Controller consisted almost wholly of common salt. The cases of disputed analyses under the Sale of Food and Drugs Acts were ninety-two, and results of the Government examination differed from those of the Public Analyst in 13 per cent. of the cases.

Import Restrictions.

Mr. Justice Sankey's recent pronouncement in regard to import embargoes being illegal, coming as it does towards the close of the year, has probably not been taken advantage of to the full extent that might otherwise have happened had business been in full swing. The obstacles in the way of unrestricted importation of fine chemicals at the moment include the factor of very high prices asked by the United States, Switzerland, and France, and it is felt that some reduction is necessary in order to tempt buyers; while the adverse American exchange adds fully 15 per cent. to the import cost. At the same time it is reported from the United States that considerable activity prevails in that market, as may be judged from the following private advices from New York, dated December 4 and 11 :

The drug market in all its branches is very active; buying is heavy, both for domestic and foreign consumption, and there are some particularly heavy orders in the market for export. The market, too, is beginning to feel the effect of the coal shortage, and manufacturers, particularly in the West, find it difficult to keep up their production to what it has been.

Notwithstanding the unsettled conditions prevailing throughout the markets of the world, business continues very brisk, and it is becoming more difficult every day to secure supplies sufficient to meet all demands. American-made chemicals are selling freely, and the orders that are coming into this market from abroad indicate that foreign makers have not improved their position, and are not able to supply even their ordinary requirements. Prices continue to advance steadily, and we really can see no prospect of relief for some time to come.

This report is typical of others, and even allowing for American optimism they bear the impress of truth. The fact that the British Customs have given unconditional release of many parcels of imported chemicals has little influence on prices here, and even with increased importations there is little hope of relief in the first quarter of the year. One section of the chemical trade which has been particularly hard hit is that dealing with aromatic chemicals and synthetic perfumes, owing to the fact that the quantities manufactured in this country at present are quite small, high in price, and insufficient to supply the demand. The consequence is that some large users have had their business considerably curtailed. As the result, however, of continued protests we understand that the Board of Trade, anticipating Mr. Justice Sankey's judgment, recently modified its attitude on the granting of licences for these products, and has adopted a broader outlook. As showing the effect of the embargoes on prices, vanillin is an outstanding instance, as before the prohibition the price was about 34*s.* per lb., whereas to-day, under the limited imports and output, the value is about 80*s.* per lb. Geraniol, which is largely used in the synthetic perfume industry, is another instance, as British make was recently offered at 40*s.* per lb., whereas it can be imported from France of the highest quality at about 15*s.* per lb. We understand that in one instance, after considerable delay, a consumer obtained an import permit to bring in geraniol, but the condition of granting it was that the parcel on arrival would be seized, and then application would have to be made for its release by the Customs. So with other chemicals. The position now is that all these chemicals on the prohibited lists, as we stated last week (p. 67), may be imported without licence, pending either reversal on appeal or legislative action. Judging by what the President of the Board of Trade has said, the Government is evidently not hopeful of reversing Mr. Justice Sankey's judgment on appeal, so that for the time being, as stated above, it may be assumed that the law is as he expresses it. In fact, the Import Licensing Section has issued a circular announcing the abolition of licences until fresh legislation is imposed, and also sounding a note of warning as regards entering into forward contracts. The Board of Trade has issued a list, published in "The Times" of December 23, giving brief particulars of the thirty-two proclamations issued under the Customs Consolidation Act, which in their present form may be regarded as so many "scraps of paper." It has been freely reported that the Imports and Exports Regulation Bill has been abandoned, but just before Parliament rose for the recess Mr. Bonar Law intimated that the Government had not decided to abandon it, so that its revival in a shape attempting to pacify hostility may be expected early in the next session, the reimposition of import restrictions in regard to so-called "key" industries being a feature of the Bill. A correspondent in "The Times" raises the question of export restrictions, and says it is reasonable to infer that those have now become invalid. Exports, however, are on a different footing, as they are controlled by the Customs (Exportation Prohibition) Act, 1914, which was passed as an emergency law by Parliament shortly after the war broke out and has been amended from time to time. Meanwhile, the maladroit statement made in the House of Commons by Sir Auckland Geddes to the effect that Sir John Simon (then Attorney-General) and Lord Buckmaster were the Law Officers of the Crown and members of the Cabinet at the time the illegal Proclamations were first issued, has provoked an acute controversy in "The Times" between Sir John Simon and Sir Gordon Hewart, Attorney-General, as to who was responsible for the Orders. The ventilation of the dispute is evidently designed to satisfy their *amour propre*, beyond which it serves little useful purpose. Incidentally it looks as if the Cabinet was too much pre-occupied with the war at the time, and as a great deal was at stake the Executive glossed the matter over and adopted a "hush" policy.

The Turpentine Market.

Considerable interest has been shown lately in speculative and manufacturing circles by the further sharp advance in the price of American turpentine oil, new high records having been created at well over 156*l.* per ton. The position deserves particular notice owing to the marked irregularity between the growing tightness for all deliveries from January to the end of April and the recent dealings for deliveries within the next four months at a considerable discount, which is not unlikely to be extended as the New Year advances, if the view receive additional encouragement that the yield of the next American output will disclose an important recovery from the current crop's yield. As we stated some time ago, American distillers were badly hit by the difficulties entailed by the war in the nature of labour scarcity and the restrictions on the export movement, which during the later period of the war was very seriously reduced. The American market for some time past has been worked to a nicety under strong "inside" control, and the resultant marked inflation of values aroused protests on the part of American dealers and manufacturers, which, however, did little or nothing to counteract the aggressive views of speculators, who have been encouraged in their operations by the firm grip kept by "inside" interests on the available supplies at producing centres. The movement of supplies to distributing ports has apparently been rather closely controlled, and this is now having its reflex on the state of the market for current crop deliveries.

Another factor which has served to exercise sentiment in the European trade is the exchange difficulty, whereby the cost of import of American spirit was in the last few months considerably increased. Fortunately, the past year's imports into this country have experienced a very substantial increase over the absurdly small returns for 1918. The total figures for eleven months amounted to 22,455 tons, compared with 19,468 tons for the corresponding period of the previous year. For the present there is a fairly ample supply available in home ports, chiefly in London, but there is evidently some fear that the imports during the next four months will show a marked falling off, as usually happens over the balance of the season—*e.g.*, the returns for November showed a big drop. Speculative operations in London have been on a considerable scale for some time past, and the opinion is now expressed that the rate at which new supplies are coming along will hardly be sufficient to keep pace with the large current needs. Manufacturers of paints and varnishes are undoubtedly full of orders in anticipation of more active operations in the building trades towards next spring. So far the fabulous prices ruling for the genuine spirit have failed to attract any notable supplies of substitutes, so that the market is still chiefly dependent upon the supplies obtainable from American sources. The home stocks are now more tightly held, and the fact is to be noted that a substantial premium is obtainable for near months as compared with spot delivery. While prices have lately been lifted to fully 150*l.* a ton for contracts covering April, for which offers are kept in narrow compass, there have been freer sellers for May-August at a discount running into about 12*l.* a ton, and the demand in that direction is, of course, not very keen. The current price for spot and near delivery is quite 45*l.* a ton above the official quotation ruling a year or so ago, when the market was still under Government control, but it is to be feared that there is not much hope of manufacturers filling their early requirements at any notable concessions under present indications. In periods of acute scarcity in pre-war times, the spot price reached about 75*l.*, with forward spirit at an enormous discount, while about 40*l.* might have been considered a fair average price. Cost of production is now, of course, much higher than prior to the war, and all descriptions of materials which enter into the manufacture of paints and varnishes are abnormally dear—linseed oil, for instance, the appreciation in value of which has been also very great, the current price lately ruling having touched 108*l.* a ton in London, or an increase of well over 30*l.* per ton from the control price ruling a year ago. Economic conditions having been badly upset by a long war, it is, of course, extremely difficult to form even an approximate idea as to market developments within the next twelve months, even assuming that something approaching a restoration of balance between supply and demand can be reached later in the year. Much, of course, depends on the cost of shipping and a return to more normal conditions in the matter of exchange rates.

Rats and Mice (Destruction) Act.

THIS Act, which received the Royal Assent on December 23, came into force on January 1. The local authorities are empowered to take steps to compel occupiers of land to take such steps "as may from time to time be necessary and reasonably practicable" for the destruction of rats and mice. The Board of Agriculture and Fisheries has issued a circular to local authorities directing attention to the new conditions created by the statute, and, although some time must elapse before effect can be given to the Act, chemists should be prepared to advise customers as to the use of rat-poisons. In this connection we refer our readers to the formulas and information regarding rat-poisons printed in the *C. & D.*, September 27, 1919, p. 83, and October 4, 1919, p. 67.

Wholesale Druggists' Cricket.

THE Wholesale Druggists' Cricket League matches, which for many years were a feature of the summer months, were suspended on the outbreak of war in 1914. The matches were productive of much benefit not only as healthy exercise, but from the friendly rivalry which was engendered between the various teams sent by wholesale drug-houses and chemical manufacturers. We have received inquiries as to the reorganisation of the League. As this shows that the resuscitation of the League is desired, we suggest that the more energetic spirits among wholesale drug-workers should at once take steps to ensure that when the cricket season arrives the various clubs will be in working order.

Insurance Dispensing.

ELSEWHERE in this issue we give the details of the settlement arrived at in regard to the remuneration for Insurance dispensing for 1920 between the Scottish Board of Health and Scottish panel chemists. The negotiations in England are being conducted with greater deliberation, as the panel chemists have not indicated to Insurance Committees that they are not prepared to undertake Insurance dispensing during 1920. That the "strike" method adopted in Scotland hurried on the negotiations there is no doubt, but the same process was impracticable in England and Wales. The conference of local Association delegates on January 6 is to be held at the house of the Hearts of Oak Friendly Society, Euston Road, London, N.W. The London panel chemists are meeting on January 1 (as we go to press) at the Memorial Hall, Farringdon Street, E.C., to agree upon a policy and to instruct the London delegates as to the wishes of panel chemists.

Still Less Sugar.

IN our issue of November 22 (p. 63) we dealt with the position of sugar, foreshadowing that the outlook was somewhat precarious, and that a further reduction in the supplies to manufacturers and the public seemed inevitable. This is expected to take place shortly, and the Royal Commission on the Sugar Supply are preparing the way by an intimation to the effect that supplies to manufacturers, compared with 1919, will be reduced, and also that a further temporary reduction in the domestic sugar ration will shortly be necessary. In the course of the official statement the following occurs :

The Royal Commission desire to make it known that 115*s.* per cwt. duty paid, ex store, less 1½ per cent. discount, has been fixed as the maximum "reasonable" price for all privately imported or "free" sugar for sale to or re-sale by manufacturers from December 29, 1919, to January 24, 1920, inclusive. Sugar imported by the Royal Commission will be issued for manufacturing purposes at the following prices: 66*s.* per cwt. against jam manufacturers' vouchers (brown), 100*s.* per cwt. against all other manufacturers' vouchers (blue). This latter price will be in force from December 29, 1919, to January 24, 1920, inclusive, and will be reduced as soon as circumstances permit. In consequence of the acute position ruling in producing countries, it has been found necessary for the present to limit issues to manufacturers to 75 per cent. of the quantity originally intended for the manufacture of jam, and 50 per cent. of the quantity issued during 1919 for all other forms of manufacture. In conjunction with these restrictions, the statement adds, the Food Controller feels bound to warn the public that a temporary reduction of the domestic sugar ration will be necessary at an early date in order to defeat what appears to be concerted action on the part of producers to take advantage of the general position by raising their prices for early deliveries to no less than six or seven times the pre-war level. If the Government were compelled to purchase largely at present it would be necessary to raise the retail price in this country to over 1*s.* per lb.

Claiming Spirit Rebate.

The Proof Spirit Conversion Tables printed in The Chemist and Druggist, December 27, 1919, p. 75, have attracted attention because the tables greatly simplify the process of claiming rebate on medicinal spirits. The publication of the tables has brought requests for further particulars of the method of obtaining the rebate, and, although at various times this has been outlined in the *C. & D.*, the present is a suitable opportunity for bringing together the details. It appears also that some chemists, who have been using duty-paid spirit for purely medicinal preparations, have neglected to apply for the rebate of duty—thus incurring considerable pecuniary loss—because of the supposed difficulty of the necessary calculations and want of acquaintance with the necessary procedure. First, it should again be stated that the standard of the Excise is "proof spirit," which has been defined by Act of Parliament as that which, at the temperature of 51° F., weighs exactly 12/13ths parts of an equal measure of distilled water. The strength of spirit corresponding to this definition has the specific gravity at 60° F. of 0.91976. water at the same temperature being taken as unity. It contains 49.28 per cent. of alcohol by weight, or 57.10 per cent. by volume at 60° F. All Excise calculations for repayment of duty are based on this standard spirit, which is known simply as "proof." The term "proof spirit" is somewhat confusing to many, and a clear idea does not exist in the minds of everyone as to the exact meaning of the expression "over-" and "under-proof." Proof spirit itself has already been defined. As stated, bulk gallons of proof spirit form the basis of official calculations. Proof spirit is taken as a 100 per cent. standard, and spirit of any given degree over-proof contains that number of degrees as percentage of proof spirit *over* 100. Thus 60 O.P. spirit would contain 160 per cent. of proof spirit. Similarly with degrees under-proof, a given number of degrees indicates the percentage of proof spirit *less* than 100, so that 30 under-proof spirit contains 70 per cent. of proof spirit. Put in another way, in the case of spirit stronger than proof or "O.P.," the number of degrees over-proof signifies the number of volumes of proof spirit over 100 which 100 volumes would yield when diluted with water. Therefore 100 volumes of spirit of 56 degrees O.P. would produce, when diluted, 156 volumes of proof spirit. With spirit weaker than proof the degrees under-proof may be considered to refer to percentages of water—thus, spirit of 30 under-proof would contain in 100 volumes 70 of proof spirit and 30 of water. Absolute alcohol is 175.35 per cent., or degrees, over-proof. Distilled water is 100 degrees under-proof. In the ordinary way a considerable amount of calculation is necessary in order to reduce all official strength and volume to this standard; but the matter has now been greatly simplified and calculation reduced to a minimum by using the tables given in the last number, which emanate from the analytical laboratory of C. R. Harker, Stagg & Morgan, Ltd., where they were compiled by their chemist, Mr. F. C. J. Bird. Although, for greater accuracy, the equivalent quantities of proof spirit are given in the tables to the third place of decimal, figures in the second and third decimal places of strength are disregarded, whatever their value, by the Excise in claims for repayment, and repayment is made on the first decimal place only. There was a slip in the explanatory notes in this respect, and we should be glad if our readers will note that in the twelfth line the word "third" should read "first" decimal point. To those about to claim rebate on spirit used for medical preparations, the first procedure would be to prepare a stock account of the quantities of duty-paid spirit received, and how the spirit has been disposed of. This account should then be sent to the local officer of Customs and Excise. A specimen system of stockkeeping has been prescribed officially (Notice No. 5, 1919), which shows on the one side the spirits received, and on the other the spirits sold and those used, the spirit used being divided into that on which repayment of additional duty is not claimed, and that on which repayment of additional duty is paid, which latter is, of course, of great importance. Spirit stock-books embodying the official headings have been issued by James Townsend & Sons and Fletcher, Fletcher & Co., Ltd., so that there is no difficulty in this respect. The point to note is that, whatever the strength of the spirit received, it must be expressed as proof spirit in gallons and fractions of a gallon to the first place of decimals, and the whole account must balance to the satisfaction of the local officer of Customs and Excise. This officer supplies form No. 224, "Declaration as to the Use of Immature Spirits and Application for Repayment of Additional Duty," upon which repayment is claimed. On spirits purchased on and after May 1, 1919, the total duty recoverable is 36*s.* 9*d.* per proof gallon, but on spirits bought between April 23, 1918, and May 1, 1919, a total rebate of only 16*s.* 9*d.* can be recovered per proof gallon. If rebate on this older spirit is claimed, permit or certificate must be produced, and the Excise officer must be satisfied from the records as to the manner in which it has been used. It is also necessary to satisfy the Commissioners of Excise that the increased duty has been paid whenever, as would be the case with most chemists, that duty has not been paid direct on clearance from bond. Claimants are, therefore, required to produce in respect of all consignments received a declaration signed by or on behalf of the vendor stating that the increased duty, specifying the rate, has been paid to the Crown. The required declaration is conveniently endorsed on the Excise certificate accompanying the spirit. Stock accounts should be balanced, and repayments can be obtained monthly. The monthly payments are an important concession which was made by the Excise some time ago, as at one time great delay in repayment took place. The interpretation of the definition of spirits which has been used solely in the manufacture or preparation of articles recognised by the Commissioners of Customs and Excise as used for medical purposes presents a difficulty, as all medicinal preparations have now been so classified. The list has not been published, but, generally speaking, preparations which can be used for flavouring purposes or any other than purely medicinal purposes are disqualified. Amongst those on which repayment of rebate cannot be claimed may be mentioned spirits of aniseed, cinnamon, lavender, rosemary, and nutmeg; tinctures of orange, cinnamon, cochineal, lemon, and quinine; essence of ginger wine, essences generally, toilet articles, and spirit used in the analytical laboratory. Facilities should be afforded to the local Excise officer to inspect the record of spirits received and used at any time, and also to check the quantities of spirits in stock and compare with the records, which must be kept to his satisfaction. The proof spirit conversion tables, being based on official figures, should be accepted without question, and no elaborate calculations need be undertaken by the Excise officer.

Since the Proof Spirit Conversion Tables were printed last week we have received requests for additional copies for laboratory use. If a sufficient demand exists, it is our intention to issue the tables, in pamphlet form or printed on a card, at a nominal price. We should be glad if wholesalers or retailers who would like reprints will let us know.

Indian Magnesite.—The sudden demand, which arose during the war owing to the temporary loss of Styrian supplies, ceased during 1918, and the Salem output fell from over 18,000 tons in 1917 to a little under 6,000 tons.

Halifax Chemists' Association.—A special meeting of the Association was held on December 22, the President (Mr. B. C. Hodgson) in the chair. The chief business was the consideration of the Insurance dispensing remuneration for 1920, and after a discussion instructions were given to Mr. P. W. Swire, who will act as the representative of the Association at the forthcoming special conference in London. "'Square' Topics" for November was read, and it was directed that an expression of appreciation should be forwarded to Mr. Hugo Wolff, coupled with the promise of a cordial welcome on January 27, when he visits the Halifax Association.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

PROROGATION OF PARLIAMENT.

The first Session (opened February 4, 1919) of the thirty-first Parliament of the United Kingdom ended on December 23, when Parliament was prorogued until February 10.

ROYAL ASSENT.

Among the Bills which received the Royal Assent on December 23 were the Rats and Mice (Destruction) Act, Trade-marks Act, Patents and Designs Act, and the Profiteering (Continuance) Act.

SEEDS AND WEEDS BILL.

A Bill "to amend the law with respect to the sale and use of seeds for sowing and of seed potatoes and to provide for the testing of seeds and to prevent the spread of injurious weeds" was read a second time in the House of Commons on December 23.

WAR EMERGENCY LAWS (CONTINUANCE) BILL.

The Government, on December 23, moved that further proceedings on the War Emergency Laws (Continuance) Bill be suspended till the next Session of Parliament. The opposition to this course which developed during the discussion led to a withdrawal of the motion, an understanding being arrived at that the early stages of the Bill up to Committee stage will be treated formally when the Bill is reintroduced next Session.

IMPORT RESTRICTIONS.

Sir A. Geddes stated, on December 22, in reply to Mr. G. Thorne and Captain W. Benn, that the proclamation affecting the import of pyrogallic acid was not itself referred to the law officers. It had never been the custom to refer to law officers regulations which involved no departure from precedent. Later on in the same sitting Mr. Bonar Law stated that it is intended to spend more public money in taking the case to the higher courts.

INDUSTRIAL ALCOHOL.

Mr. R. McNeill, on December 17, asked the President of the Board of Trade whether he has yet considered the report of the Committee on Industrial Alcohol received last June; and whether it is the intention of the Government to carry out the recommendations contained in the report.

Mr. A. J. Balfour, who replied, said the recommendations of the report of the Interdepartmental Committee have been under consideration by the Department of Scientific and Industrial Research, and he is taking preliminary steps, in consultation with the Director of Fuel Research, to enable the Department to deal with the alcohol question in an effective manner.

PALM KERNELS.

Sir H. Craik, on December 22, asked the Minister of Food whether, in view of the fact that there is no prohibition of the export from this country of margarine or of Brazilian babassu kernels or shea nuts, which are ingredients of margarine, he will consider the advisability of removing the prohibition of the export of palm kernels imported from British Possessions and used for the same purpose.

Mr. Roberts replied: Only small quantities of babassu kernels and shea nuts have been imported into this country, and these commodities are not as yet staple raw material for the manufacture of margarine. Palm kernels may be exported direct from West Africa to any part of the world, and their re-export from the United Kingdom would, if it were permitted, not only place a greater burden on the already congested ports, but would take up British shipping required for other purposes.

REGISTERING DISPENSERS.

Mr. Crooks, on December 22, asked the Minister of Health whether a by-law was passed in June last providing for the registration as chemists and druggists of holders of the diploma in dispensing of the Society of Apothecaries who obtained the same before December 31, 1908; and whether there is any possibility of a person who obtained the diploma in 1910, and who, since that date, has had five years' Army service, being registered without further examination.

Mr. Shortt replied: The Pharmaceutical Society have passed a by-law, now awaiting the approval of the Privy Council, which provides for the registration as pharmaceutical chemists or chemists and druggists of assistants to apothecaries who obtained before December 21, 1908, a certificate of qualification under the Apothecaries Act, 1815. He understood that there is no possibility of a relaxation of the provisions of the by-law in question in favour of such a case as those referred to.

FERTILISER PRICES.

Sir A. Boscawen stated on December 22 that the Fertiliser Prices Order, 1918, under which control was exercised over sales and purchases of fertilisers, ceased to operate on May 31, 1919. Since that date maximum delivered prices of basic slag and sulphate of ammonia for home deliveries have been fixed by agreement between manufacturers and the Board of Agriculture. No maximum prices have been arranged for superphosphate on account of the varying cost of importing phosphate rock. Apart from these arrangements, the production, distribution, and prices for home consumption of these fertilisers are now free from control. Control of export of fertilisers is still maintained, in order to secure sufficient supplies to meet home requirements. Export licences for any surplus are, however, freely granted. This control will be discontinued as soon as practicable, consistent with meeting the needs of British agriculture.

PROFITEERING ACT.

Lieut.-Commander Kenworthy, on December 22, asked the President of the Board of Trade how many cases of alleged profiteering in wholesale articles are being investigated by the Board of Trade; how many decisions in such cases have been reached since the Profiteering Act became law; how many cases of trusts and combines are being investigated; and how many decisions have been reached.

Sir A. Geddes replied: The Central Committee, to which the powers of the Board of Trade under the Profiteering Act in relation to wholesale transactions have been delegated, have investigated and decided thirty-eight specific complaints. Ten investigations in respect of trusts or combines have been instituted, in five of which a report or interim report has been rendered.

Mr. Lindsay asked the President of the Board of Trade how many public authorities in Ireland should have set up Committees under the Profiteering Act; and how many have done so.

Sir A. Geddes replied: One hundred and twelve local authorities in Ireland, out of 309 to whom invitations were sent, have already established, or are about to establish, local Committees under the Profiteering Act. At present only twenty-three local authorities have definitely refused to establish local Committees.

Mr. Maddocks asked the President of the Board of Trade whether he is aware that prosecutions under the Profiteering Act are proceeded with before Justices while appeals are pending in respect of the same offences from decisions of the local Profiteering Tribunals; and whether he will take steps to prevent this procedure being continued.

Sir A. Geddes replied: The Regulations for local Committees provide that if an appeal is duly made from the decision of the local Committee, action on any Order shall be suspended until the result of the appeal is known. In one case which was brought to notice, a local Committee were proceeding with a prosecution while an appeal was pending, and their attention was immediately called to this Regulation.

ST. LUCIAN HONEY.—The exports from St. Lucia during 1918 amounted to 80,070 lb., against 46,724 lb. in 1917.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Surrey.—A meeting of the Insurance Committee was held on December 31, at which the reports of the various sub-committees were received. The following is abstracted from the agenda: The Medical Benefit Sub-Committee reported that three chemists have withdrawn their names from the list of persons supplying drugs and appliances, and the clerk announced that he had forwarded to each chemist on the list a copy of the new Regulations. The special sub-committee appointed to make representations to the Ministry of Health in regard to the Draft Regulations included in their suggestions the following:

Provision should be made requiring every chemist to register with the Committee (and keeping the Committee informed of any changes) the name and address of any qualified assistant under whose supervision drugs are dispensed. Especially is this desirable in the case of firms with many branches.

It was decided that the attention of practitioners be drawn to the provision whereby they may dispense for persons upon their lists in an emergency. The hours of business for chemists in the county, as arranged at the conference between representatives of the Insurance Committee and Pharmaceutical Sub-Committee, are as follows: 9 A.M. to 7 P.M. on week-days in rural districts; 9 A.M. to 7.30 P.M. in urban districts, except Wednesday (9 A.M. to 1 P.M.) and Saturday (9 A.M. to 8 P.M.). In urban districts a rota for duty up to 9 P.M. was recommended, and double dispensing-fees for prescriptions after 7 or 7.30 P.M. In the statement of accounts advances and balances to chemists amounted to 1,030*l.* 7*s.* 6*d.*), and the Pharmaceutical Committee was credited with 26*l.* 10*s.* 3*d.* from chemists' accounts. The Finance and General Purposes Sub-Committee recommended that the estimated amount (585*l.*) required by the Joint Committee for Pricing Prescriptions be paid in four quarterly sums.

SCOTLAND.

December Drug Tariff.

The following are the new Scottish Tariff prices for December:

Name	oz. s.	oz. d.	dr. s.	dr. d.
Argent. nit. ...	—		1	2
,, ,, indur.	—		1	2
,, ,, mit. ...	—		0	9½
Bismuth. carb. ...	1	9½	0	3½
,, salicyl. ...	2	4	0	4
,, subnit. ...	1	8½	0	3
Calc. glyceroph. ...	2	5½	0	4½
Camphor	2	1	0	4
Cocain. hyd. ...	—		10	9
Emul. ol. morrh. (B.P.C.) ...	0	2½	0	0½
Ergotin (B.P. '98)	24	2	3	5½
Ext. casc. sag. sic.	1	9	0	3
,, ergot	—		3	4½
,, ,, liq. ...	2	6	0	4½
,, malti	1	5½ per lb.		
,, viburn. liq. ...	1	5	0	2½
Fer. et am. cit. ...	0	7	0	1
Hexamina ...	1	4½	0	2½
Homat. hydrob. ...	1*s.* 2½*d.* a grain			
Lin. bellad. meth.	0	9	0	1½
,, camph. ...	0	7½	0	1½
,, camph. amm. meth.	0	7	0	1
,, chlorof. ...	0	10½	0	1½
,, croton ...	1	4½	0	2½
,, methyl. sal. co.	1	2½	0	2½
,, opii	0	8½	0	1½
,, sapo. meth. ...	0	3½	0	0½
,, terebinth. ...	0	4½	0	1
,, ,, acet.	0	6	0	1
Lith. cit. effery. ...	0	7	0	1
Menthol	7	0	1	0

Name	oz. s.	oz. d.	dr. s.	dr. d.
Methyl sulphonal	10	9	1	6½
Ol. caryoph. ...	3	2	0	5½
,, eucalypt. ...	0	5½	0	1
Phenacetin ...	2	8½	0	5
Phenazon	3	0½	0	5½
Phenolphthal. ...	2	10	0	5
Potass. brom. ...	0	6	0	1
Pulv. lobeliæ co. (B.P.C.)	0	6	0	1
Quinin. sulph. ...	5	9	0	10
Resorcin	3	9	0	6½
Salicin	8	5	1	2½
Sod. brom. ...	0	5	0	1
,, phosph. eff. ...	0	6	0	1
,, sulphocarb. ...	0	3½	0	0½
Sulphonal	9	4	1	4
Syr. calc. lact. ...	0	4½	0	1
,, chloral. ...	0	5	0	1
,, sennæ... ...	0	4	0	1
,, tolu.	0	2	0	0½
,, zingib. ...	0	3	0	0½
Tinct. benz. co. ...	0	8	0	1½
,, iodi mit. ...	0	8	0	1½

Bandages: 1 in. by 3 yds., each 2*d.*; 2 in. by 4 yds., 4*d.*; 2½ in. by 4 yds., 5*d.*; 3 in. by 4 yds., 5½*d.*

Lints, plain: 1 oz., 6*d.*; 2 oz., 11*d.*; 4 oz., 1*s.* 8½*d.*; 8 oz., 3*s.* 3*d.*, 1 lb., 6*s.* *Boric*, 4 oz., 1*s.* 2*d.*; 8 oz. 2*s.*; 1 lb., 3*s.* 11*d.*

Wool, cotton: 8 oz., 1*s.* 5*d.*; 1 lb. 2*s.* 7*d.*

Draft Regulations.

In the reprint of certain of the Draft Medical Benefit Regulations (*C. & D.*, December 27, 1919, p. 68) the word "reference" was omitted from the penultimate line of the "Rept. Mist." regulation, which should read as follows:

Prohibition of "Rept. Mist."

8. (10) A practitioner is required to order on a form, provided by the Committee for the purpose, such drugs and prescribed appliances as are requisite for the treatment of any patient. *The order shall be signed by the practitioner with his own hand, and shall not be written in such a manner as to necessitate reference on the part of the person supplying the drugs or appliances to a previous order.*

Festivities.

Edinburgh Pharmacy Athletic Club.

The Edinburgh Pharmacy Athletic Club held a successful whist-drive and dance on December 17, at which upwards of seventy ladies and gentlemen were present. This was the Club's first social function of the season.

Manchester Assistants' Whist-drive.

A successful whist-drive was held on December 17 at the Clarion Café, Market Street, and upwards of 100 members and friends were present. Six prizes were awarded, the donors including C. Midgley, Ltd., Benger's Food, Ltd., and the Committee.

Cartwright's Christmas Convention.

The Christmas convention of the representatives of W. B. Cartwright, Ltd., manufacturing chemists, Rawdon, was held on December 22, and as this was the first occasion since the commencement of the war on which all the representatives could be present a reunion dinner was held at the Hôtel Métropole, Leeds. The chair was occupied by the managing director, Mr. W. B. Cartwright, and a most enjoyable evening was spent. All the directors of the company were present.

Sangers' Concert and Dance.

An enjoyable concert and dance was given by the members of Sangers' Girls' Social Club, on December 23, to which were invited the office male staff and representatives. The large invoice office had been tastefully decorated, and made an admirable dancing-floor. During the evening the President (Miss Sybell Sanger) congratulated the girls on the success of their new club, and promised her continued support. She was then presented with a bouquet of pink carnations and white lilac from the members of the club. The following ladies and gentlemen contributed to the enjoyment of the evening with song and recitation: Misses Thompson, Woodhams, Thomas, Oldfield, Little, Harwood, Hardwick, Wright, Davis, Cook, Chat; Messrs. Fitzjohn, Liddle, Saker, with Miss Bylett and Mr. Young at the piano.

Presentations at Evans Sons Lescher & Webb, Ltd.

The annual conference of representatives of Evans Sons Lescher & Webb, Ltd., Liverpool, was held at the Reform Club, Dale Street, on December 29, the Chairman of the company (Mr. W. P. Evans) presiding. The opportunity was taken of giving a farewell dinner to Mr. Alfred Mills, senior representative, who has been in the service of the company for 47½ years, and to Mr. Willdey, for 37½ years a member of the company's staff. After dinner the Chairman presented cheques to Mr. Mills and Mr. Willdey, on behalf of the directors, and made reference to the long and honourable service of the recipients. Mr. Wm. Brinson, for the representatives, also presented to Mr. Mills a crown derby tea-service and electro-plated tray, and to Mr. Willdey a solid silver teapot, sugar-basin, and cream-jug. Suitable acknowledgment was made by Mr. Willdey and Mr. Mills. Preceding the conference, presentations, consisting of a solid silver ink-stand to Mr. Mills, and a travelling-bag to Mr. Willdey, with pendants for Mrs. Mills and Mrs. Willdey, were made at Hanover Street by the departmental heads.

The Scottish Insurance Dispensing Terms.

As mentioned last week (p. 74), the negotiations between representatives of the Scottish Board of Health and the Scottish panel chemists regarding the remuneration for Insurance dispensing during 1920 were concluded before Christmas. A compromise was effected by the chemists' acceptance with reservations of a dispensing fee of 5*d.*, against 6*d.* as claimed. The previous figure was 2*d.*, and in addition a profit is obtained on drugs, the cost-price system having been rejected by Scotland in 1915. The following extracts from the correspondence place on record the steps by which agreement was reached. After stating that the risk of discounting was the reason why the Board of Health could not grant the increase asked for, it was added in the letter of December 17 that the Treasury had agreed to give a grant in aid to provide against discounting if it can be shown that special burdens would fall on the Drug Fund during 1920. Without giving a guarantee as regards discounting, the Board's representatives were of opinion that :

(*a*) The Scottish dispensing scale of 1913 (*i.e.*, approximately 4*d.*) could be met without general discounting. There would, however, be a number of areas where the local fund would be insufficient, but the deficiency would, it was believed, be met by the central fund.

(*b*) A scale of dispensing fees calculated at 25 per cent. in addition to the 1913 scale (*i.e.* approximately 5*d.*) would lead to a deficiency in a number of additional areas, and would materially increase the difficulty of financing the scheme towards the close of the year, but with the safeguards provided the risk of discounting would not, from a business point of view, be such as to warrant the Board in withholding their assent if the chemists and Insurance Committees came to an agreement on that basis. In giving this indication, the representatives of the Board desired it to be made clear that their estimates might be falsified if the year proved either a favourable or a very unfavourable one. They also desired it to be understood that if asked to advise they would have regarded the 1913 scale as the limit of reasonable safety, and their attitude towards an additional 25 per cent. was influenced by their extreme desire to find a way out of the present difficulty.

(*c*) As regards an addition of 50 per cent. to the 1913 scale (*i.e.* approximately 6*d.*) the Board representatives had no doubt whatever. They are satisfied that, unless a quite unwarrantably optimistic view is taken of the probabilities of 1920, a concession of 50 per cent. advance on the scale would lead almost certainly to discounting and to dislocation of the financial arrangements towards the close of the year, involving delay in the payment of accounts. Any prolonged delay in the settlement of chemists' accounts is only in a slight degree less objectionable than actual discounting.

Mr. J. Rutherford Hill, Secretary of the Pharmaceutical Standing Committee (Scotland), communicated on December 19 the conclusions arrived at on December 18 at a meeting of the Committee. The resolutions unanimously adopted at this meeting were :

1. That the General Council of Panel Chemists (Scotland) reaffirm their opinion that the demand for a 50 per cent. increase on the 1913 Scottish scale of dispensing fees is reasonable and fair, and might justly be insisted upon.

2. That, in view of all the circumstances, such as the financial difficulties, the recognised abnormal conditions and uncertainty as to 1920, and the grave consequences involved in any stoppage of necessary medicines and appliances for sick insured persons and invalided ex-Service men, they resolve to recommend Scottish panel chemists to accept, meantime, the offer of a 25 per cent. increase in place of a 50 per cent. increase in dispensing fees, under the conditions embodied in the letter of December 17, 1919, from the Scottish Board of Health to the Pharmaceutical Standing Committee (Scotland).

3. That this acceptance does not imply either that the 50 per cent. increase is excessive or that the 25 per cent. increase is adequate. It is further to be clearly understood that this acceptance is based on the assurance that the Board of Health will secure the assent of all Insurance Committees to the scheme for protecting panel chemists against discounting, and that it may reasonably be assumed that when the measures indicated have been carried out they virtually secure exemption from discounting, though they do not technically amount to an absolute guarantee. Further, this acceptance is for one year only, with the right of a break at the end of each quarter, and reserving the question of a review of the whole situation, in the light of experience, before making any arrangements for 1921.

4. That the General Council of Panel Chemists (Scotland) instruct the Pharmaceutical Standing Committee (Scotland) to complete all necessary details for a pharmaceutical service for 1920 on the lines of the foregoing policy.

The Board of Health's letter dated December 19 stated :

The Board further considered the suggestion made by the representatives of the Association of Insurance Committees that an arrangement might be come to on the basis of the Board approving arrangements made by the Insurance Committees with chemists which would include dispensing fees at the rate of the Scottish scale of 1913 *plus* 25 per cent., and they have to-day signified to Insurance Committees their assent to that course in a circular letter, of which I enclose a copy for your information.

With reference to the third paragraph of your letter, I am to inform you :

(*a*) That the Board will provide by regulation for the setting up of the central reserve fund and disposal of surpluses. On the question of control of extravagance in prescribing, I am to refer you to the terms of Article 37 of the enclosed copy of Draft Regulations, under which it is proposed to impose on the Panel Committee the express duty of dealing with excess or extravagance in prescribing. Failing the Panel Committee, it will be the duty of the Insurance Committee to take action, and should they fail the Board themselves will intervene.

(*b*) As regards the risk of discounting, the Board can add nothing to their letter of 17th instant.

(*c*) The condition of a mutual break at the end of each quarter on due notice, and of consideration if desired, towards the close of 1920 of the terms for 1921 is noted. It is provided for under the regulations.

Following this letter Mr. Hill notified panel chemists of the agreement, and recommended them to intimate to their Insurance Committee willingness to undertake pharmaceutical service for 1920 in terms of the agreement.

Business Changes.

MURRAY & MCCONACHIE, LTD., chemists, Winchester, have acquired the business of the late Mr. W. D. Gibb, High Street.

MR. HARRY T. SAMUEL, chemist and druggist, has acquired the branch business of Mr. W. F. Cole, chemist and druggist, at 2 Raglan Street, Lowestoft.

MR. A. C. WILLIAMS, Walton's Buildings, 5 New Brown Street, Manchester, has been appointed Lancashire agent for Chivers's carpet soap and other household specialities.

MR. T. HARRY HARRISON has started in business as a manufacturer's agent at 44 Beaconsfield Road, Birmingham. He has been for some years with Barnett & Co. and Barnett's Perfumery, Ltd., Birmingham.

MR. W. C. BRUMLEU, drug merchant, 7 Mincing Lane, London, E.C. 3, announces that he has disposed of his business to his manager, Mr. Edward George Densley, who has been with him for upwards of twenty years.

MR. G. E. HALL and MR. H. D. PROVAN have joined Mr. H. O. Lloyd, M.P.S., as directors of Lloyd, Hall & Provan, Ltd., manufacturing chemists, Green Lane, Small Heath, Birmingham. Both Mr. G. E. Hall and Mr. H. D. Provan have held responsible positions with packed goods houses for many years.

THE partnership hitherto existing between Mr. H. E. King, Mr. A. C. Preston, and Mr. H. Classon Preston expired on December 31. The senior partner, Mr. H. E. King, retires from the firm, and Mr. William James Beardsley, who has long been associated with the business as chemist, has been taken into partnership. The name of the firm, Thos. Hodgkinson, Prestons & King, will be continued unchanged.

FORMALDEHYDE SOLUTION, added to water in the proportion of 1 oz. to a pint, is recommended for sprinkling floors before sweeping them. "We have been using this for some considerable time, and have noticed the decided diminution of colds in our works," writes the managing director of a large works to "The Times."

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal, November 19, 1919.)

"MOKOL"; for a skin preparation (48). By H. H. Vallat, 98 Hatton Garden, London, E.C. 1. 395,523.

"ANITRA"; for perfumery, etc. (48). By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London, W. 3. 395,550.

(From "The Trade-marks Journal," November 26, 1919.)

"NATIONAL COLOURS LIMITED BOLTON" and device formed of letters "N B"; "BOLTONIA" and device; for chemicals (1). By National Colours, Ltd., 33 Lum Street, Bolton. 395,138/9.

"SULFOLINE"; for chemicals (1). By Vacuum Oil Co., Ltd., Caxton House, Tothill Street, Westminster, S.W. 1. 395,598. (Associated.)

"CRESCENT BRAND B M & Co." and device of crescent; for dyes (1). By Brunner, Mond & Co., Ltd., Winnington, Northwich, Cheshire. 395,777. (Associated.)

"PERQUITE"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9. 396,061.

"CINOSAN"; for a disinfectant spraying solution (2). By T. Fell, 3 Ridgmount Street, London, W.C. 1. 395,024.

"SNOWFLAKE"; for chemicals (2). By Wm. Butler & Co. (Bristol), Ltd., Silverthorne Lane, St. Philips, Bristol. 395,512.

"BUSTLER"; for chemicals (2), medicinal chemicals (3), goods (47), perfumery, etc. (48), and for soap (50). By J. Knight, Ltd., Silvertown, London, E. 14. 395,634/635/717/718/636. (Associated.)

"ROCKLES BRAND DENTAL REMEDIES"; for medicated dental remedies (3). By N. A. Petit, 7 Avenue des Fleurs, Nice, France. 392,386.

"SYLVIA'S CERNOLINE"; for medicinal chemicals (3); "SYLVIA'S SHAVNOLINE" and "SYLVOLINE BEAUTY CREAM"; for perfumery, etc. (48). By Miriam M. Woods, 6 High Street, Southampton. 393,136/137/138.

"ROC REMEDIES" on oblong seascape device; for medicinal chemicals (3). "ROC EMBROCATION THE ROC BIRD STRANGLES PAIN," etc., with picture of bird and snake; for embrocation (3). By Roc Remedies, Ltd., 16 Paternoster Row, London, E.C. 4. 393,966/7.

"PERICHTHOL BRAND AMMONIUM ICHTHOSULPHONATE"; for medicinal chemicals (3). By The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N. 1. 394,763.

"7 OILS" and signature "Herbertsmith" ("7" and "oils" disclaimed); for a seven oils medicine (3). By H. Smith, 14 Jano Street, Workington. 394,942.

"RENALSIN BRAND EFFERVESCENT SALINE"; for medicinal chemicals (3). "RENALSIN"; for mineral waters, etc. (44). By Saltrates, Ltd., 214 Great Portland Street, London, W. 1. 395,606/7. (Associated.)

"BABS-TABS" and monogram "E. G. & S." ("Babs-Tabs" disclaimed); for medicinal chemicals (3). By E. Gould & Son, 35 Moorgate Street, London, E.C. 2. 395,843.

"MICROID"; for all goods (8). By Baird & Tatlock, Ltd., 45 Renfrew Street, Glasgow. 395,764.

"ERJOLINE DEFIES TIME" on circular device of pyramids, etc.; for toilet cream, etc. (48). By Lintine Manufacturing Co., 206 Pentonville Road, London, N. 1. 393,287. (Associated.)

"ERINORA" and "REVE D'ERIN"; for goods (48). By J. A. Bingham, 43 Donegall Place, Belfast. 394,710/711. (Associated.)

"CUTISOLA"; for cuticle solvents (48). By E. W. Weeks, 155 Northumberland Street, Newcastle-upon-Tyne. 395,141.

"TRAFGAR"; for all goods (48). By A. V. Castle, 234 Mansel Road, Small Heath, Birmingham. 395,389.

"AVONNO"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 395,424.

"OASIS"; for perfumery, etc. (48). By the General Chemical and Pharmaceutical Co., Ltd., 57 Church Road, Willesden, N.W. 10. 395,527.

"FOAMITE FIREFOAM"; for fire-extinguishing compounds (50). By MacAndrews & Forbes, Ltd., 2 Broad Street Place, London, E.C. 2. 390,112.

(From "The Trade-marks Journal, December 3, 1919.)

"SELCO"; for all goods (1, 3, 4, and 48). By the Selby Chemical Co., Ltd., Holmes Lane, Selby, Yorks. 395,182/3/4/5. (Associated.)

"PANDORA"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9. 396,358.

"ODELIME"; for chemicals (2) and for medicinal chemicals (3). By J. Wolstenholme, 52 New Broad Street, London, E.C. 2. 394,051/2. (Associated.)

"KAPOKAL"; for medicinal chemicals (3). By C. W. Powell, 27 Whitworth Road, Grangetown, Yorks. 394,180.

"FREEZOME"; for medicinal chemicals (3). By Freese & Moon, Ltd., 59 Bermondsey Street, London, S.E. 1. 394,329.

Proprietary Articles Trade Association.

As a result of the recent election in the three sections of the Council, the following have now been declared duly elected for the year 1920:

MANUFACTURERS.

Condy & Mitchell, Ltd. (J. A. Kenningham), 65 Goswell Road, London, E.C.

Grossmith & Son, Ltd. (A. Ridout), Newgate Street, London, E.C.

Kutnow & Co., Ltd. (Sigismund Kutnow), 41 Farringdon Road, London, E.C.

John Bond (London), Ltd. (A. B. Hickisson), Southgate Road, London, N.

Mellin's Food, Ltd. (Dr. J. J. Pilley), Stafford Street, London, S.E.

Newton, Chambers & Co., Ltd. (J. Godber), Thorncliffe, Sheffield.

Powell, Thos., Ltd. (F. W. Powell), 85 Blackfriars Road, London, S.E.

Scott & Bowne, Ltd. (T. Hinds), 10 Stonecutter Street, London, E.C.

Steedman, J., & Co., (J. A. South), 272 Walworth Road, London, S.E.

Whelpton, G., & Sons, Ltd. (A. R. Lewis), Hemel Hempstead.

Page Woodcock, Ltd., King Henry's Walk, Balls Pond Road, London, N.

Woodward, W., Ltd. (W. H. Woodward, M.A.). 81 Fortess Road, London, N.W.

WHOLESALERS.

Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

Barclay & Sons, Ltd. (G. R. Barclay), 95 Farringdon Street, London, E.C.

Butler & Crispe, 82 Clerkenwell Road, London, E.C.

Edwards, W., & Son, 157 Queen Victoria Street, London, E.C.

Evans, Gadd & Co. (H. W. Gadd), Fore Street, Exeter.

Evans Sons Lescher & Webb Ltd. (J. McCaig), Liverpool.

Hirst, Brooke & Hirst, Ltd. (H. M. Read), Dyer Street, Leeds.

May, Roberts & Co., Ltd. (A. T. Webb), 9 Clerkenwell Road, London, E.C.

Newbery & Sons, Ltd. (E. Pickering), 27 Charterhouse Square, London, E.C.

Raimes & Co. (W. C. Birks), Micklegate House, York.

Sangers (F. J. Smith), 42A Hampstead Road, London, N.W.

Woolley, James, Sons & Co. (W. Lane), Victoria Bridge, Manchester.

RETAILERS.

Atkinson, J. G., 27 Lunham Road, Upper Norwood, London, S.E.

Barnes, Dr. A. J., 1 Charlemont Street, Dublin.

Clarke, R. Feaver, "Henbury," New Milton, Hants.

Colley, H. W., 253 Cleethorpes Road, Grimsby.

Currie, W. L., 223 Byres Road, Partick, Glasgow.

Francis, J. B., 53 Hope Street, Wrexham.

Keall, John, 68 West Hill, Wandsworth, London, S.W.

Keith, A. R., 6 Chrisp Street, Poplar, London, E.

Milner, Jonah, 209 Trafalgar Road, Greenwich, London, S.E.

Pickard, S. N., Station Road, Ossett, Yorks.

Pond, G. P., 68 Fleet Street, London, E.C.

Rowsell, P. F., 74 High Street, Exeter.

The Manna of Scripture.

By E. M. Holmes, F.L.S.

THE recent discussion in THE CHEMIST AND DRUGGIST concerning the nature and origin of the manna of the Israelites has led me to venture to express the opinion of a botanist on the subject, for to a student of that science, especially to an economic botanist, the subject presents an exceedingly interesting problem.

The description given by the Jewish historian in the Pentateuch does not exactly fit in with any known vegetable production, and the various plants or plant products with which manna has been doubtfully identified from time to time cannot reasonably be considered by any botanist to meet the requirements of the case.

The plant that has most generally been accepted as being the manna of Scripture is a lichen, *Lecanora esculenta*, var. *mannifera*, Ehrenb., which is abundant on stones and rocks, and in certain stages of its growth is broken up by drought and violent winds into small particles, which collect in quantity under the lee of small bushes which arrest its career, or is carried away by rainstorms and deposited in wavelike furrows in sandy desert ground in considerable quantities. An illustration of this plant is given in Kerner and Oliver's "Natural History of Plants," vol. i., p. 195, and a description of its curious growth and distribution in vol. ii., p. 810, 811. Two other species are mentioned as being found mixed with it—viz., *Lecanora desertorum* and *Lecanora Jussufii*.

Lecanora esculenta is abundant from Persia and Asia Minor to Algeria and the Sahara in North Africa. But this lichen differs from manna in not appearing with the dew, not breeding worms and not stinking if kept for two days. I have had a specimen of it in my possession for over thirty years, and it is as hard and solid as when it first came into my possession. It is obvious, therefore, that it cannot be the manna of Scripture, as it does not possess any of its characters. It may be useful to quote here the actual descriptions given in the Pentateuch of the appearance of manna. The best account of it occurs in Exodus xvi. 14-36, which reads thus :

"And when the dew was gone up, behold, upon the face of the wilderness a small round thing (or flake), small as the hoar frost upon the ground." . . . Moses said, "Gather yo of it every man according to his eating," and added, "Let no man leave of it till the morning." But some of them left it till the morning, and it bred worms and stank. When the sun waxed hot, it melted. . . . And the House of Israel called the name thereof "Manna"; and it was like coriander seed, white, and the taste of it was like wafers made with honey.

The description given of it in Numbers xi. 7-9 is slightly different :

"The manna was like coriander seed and the eyo thereof as the appearanee of bdellium. The people went about and gathered it and ground it in mills or beat it in mortars and seethed it in pots and made eakes of it, and the taste thereof was as the taste of fresh oil. And when the dew fell upon the eamp in the night the manna fell upon it."

It is obvious to any cryptogamic botanist that these characters belong to fungi rather than to lichens. Everyone familiar with British fungi knows how rapidly, even in our own temperate climate, many of the softer agarics become full of the grubs or larvæ of small flies or beetles, and how rapidly fungi grow when the conditions of warmth and moisture are suitable for their development. Melting in the sun (or as soon as the spores are mature) is a familiar phenomenon in our own country in the case for instance, of *Coprinus atramentarius*, which derives its specific name from the fact that the plant deliquesces into a black, inky fluid. The same genus also provides the edible species, *Coprinus comatus*. To mycologists, also, the gregarious character of many fungi is well known. I remember, some years ago, noticing on Saunton Sands, in North Devon, that apparently the ground was scattered all over in one place with what looked like bleached rabbit's dung, each nodule of which had a dark point in its centre, and, on stooping to take up one nodule to ascertain the cause of this appearance, it came up in my hand with a stalk of about six times its length, which had been immersed in the sand, and it proved to be the rare fungus *Tulostoma mammosum*. This may have some bearing on the statement that the eye or "appearance of manna was as the appearance of bdellium" (Numbers xi. 7), which may have indicated that the manna grains had a dark central spot.

The other substances which have been suggested as being the manna of Scripture are described in "Pharmacographia" (2nd ed.), pp. 414-416, and in Smith's "Dictionary of the Bible," 1865, p. 512; but these cannot possibly be regarded as answering to the biblical description, since they are saccharine exudations from bushes or small trees, used when cleaned, like honey, to sweeten farinaceous cakes, but never made into cakes by themselves. Thus, although the tamarix manna, from *Tamarix Gallica*, var. *mannifera*, Ehrenb., is found in June, July, and August, caused by the puncture of an insect, *Coccus manniparus* Ehrenb. occurs in the peninsula of Sinai; the name manna (meaning, What is it?) would hardly have been applied to it by the Israelites when they could see its source. Indeed, the Arabs call it *Gaz angabin*, meaning tamarisk honey, not manna. Moreover, these saccharine exudations do not breed worms and stink in two days, for specimens of them in the Hanbury Collection of Materia Medica at 17 Bloomsbury Square have remained there unchanged for nearly forty years. When, therefore, soon after the publication of Mr. A. T. Swann's book on "Fighting the Slave-driver in Central Africa" appeared, I read his account of the manna that he saw on the plateau between the lakes Tanganyika and Nyasa, I recognised at once that the description he gives of it agrees almost word for word with the biblical account of manna, and I therefore wrote and asked Mr. Swann if he could, through any friends there, or travellers going to that region, obtain for me some of the plant, preserved in spirit or solution of corrosive sublimate, which presumably most medical missionaries take with them. In reply, he kindly promised to take the first opportunity that occurred to endeavour to get a specimen, but whether the opportunity never occurred or the promise slipped from his memory I was unable to ascertain, since shortly afterwards I lost the memorandum of the name of the book and the author's name and address, and although I searched through a number of books on African travels I could not find the passage again until I saw a reference to it in the *C. & D.* in "Xrayser II.'s" note on manna a week or two ago, and now I cherish the hope that before my days are ended I may yet be able to solve this riddle of the ages, or to see it solved by some other cryptogamic botanist; for I feel convinced that manna is a fungus hitherto undescribed and belonging possibly to a new genus. At all events, I intend to hang on to the trail I had lost until the enigma is solved. It may be interesting to quote here Mr. Swann's description of manna word for word for comparison with the biblical description already quoted (*l.c.*, p. 116) :

It was whilst passing through this district (the high plateau which separate the lakes Tanganyika and Nyasa), composed mostly of sandstone and granite, and occupied by the Amambwi tribe, that I was shown a very curious white substance very similar to porridge. It was found early in the morning before the sun rose. On examination it was found to possess all the characteristics of the manna which is said to have fallen for the benefit of the Israelites. In appearance it resembled coriander seed, was white in colour, like hoar frost, sweet to the taste, melted in the sun, and if kept overnight was full of worms in the morning. The natives were not allowed to gather it without asking permission from the chief. It required to be baked if you intended to keep it any length of time. This substance was seen some years afterwards in the same district by several Europeans now living (1910), who can vouch for the accuracy of my description of this food. When asked what it was and where it came from the natives replied, "It's the food of God! No one knows where it comes from." I have never seen or heard of it in any other part of the world, although it may be known to others. A cake of it was baked and sent to England, but no one appeared able to determine its identity. It looked as if it was deposited on the ground in the night, but in what manner I was never able to ascertain. No holes could be found in the ground near it or one might have concluded that insects unearthed

it during the night. The only suggestion I could think of was that it might be a mushroom spawn, as on the spot where it melted tiny fungi sprung up the next night."

During the last few days I have had the privilege of conversing with a medical missionary, Dr. Wareham, who knows the district well where African manna was found; and he and Mrs. Wareham confirmed the statements made by Mr. Swann, but stated that they had only once seen the manna during eighteen years' residence in Africa. He has promised to endeavour to get some of the living manna preserved in spirit or formaldehyde or solution of corrosive sublimate, and to get some of the soil in which it grows sent separately in a small box. Mrs. Warcham suggested that possibly ants might have something to do with its appearance in such profusion. It is well known that in this country ants cultivate certain fungi in their nests, apparently for food when it is scarce outside.

The miracle respecting manna was undoubtedly its phenomenal production on an enormous scale in the immediate neighbourhood of the Israelitish camp. In this respect it resembles other miracles related in Scripture, such as the multitude of fishes, the feeding of the five thousand; but that the manna itself was a vegetable product, possibly of rare occurrence but miraculously increased in quantity, just as the quails were in this case by a particular wind, seems probable. That a plant occurring in Central Africa should also occur in Arabia is not at all improbable, since we know that plants often extend great distances along river basins, or occur on mountains at immense distances apart when the conditions are similar, although the plant may present slight variations, as in the Guide's Flower (*Leontopodium alpinum*), which occurs from Mont Blanc in the Swiss Alps to the Himalayas.

It is a remarkable fact that a deep valley runs for nearly 4,000 miles from Arabia to the Cape of Good Hope, known as the Great Rift Valley, and along its sides there occur several forms of a plant of the genus *Acokanthera*, Nat. Ord. *Apocynaceæ*, from one end of the valley to the other; *Acokanthera Deflersii* in Arabia, *A. Schimperi* in North-east and Central Africa, and *A. spectabilis* and *A. venenata* in South Africa. It need not be surprising, therefore, if a cryptogamic plant like manna were found along the sides of this immense valley, extending from the Lebanons almost to the Cape of Good Hope, wherever the conditions were suitable for its development, since the spores of fungi are easily carried on the feet of birds. There is, therefore, apparently no reason why the manna of Tanganyika should not be identical with that of Arabia. Gregory, in "The Great Rift Valley" (p. 5), states that a series of thirty lakes occur along its course, only one of which communicates with the sea, thus indicating that it was an ancient river-bed, and giving some support to the theory that this was the bed of the ancient river Gihon (Genesis ii. 13), which "compasseth the whole land of Cush." The land of Cush, according to Smith's "Dictionary of the Bible" (1865, p. 223), evidently included both Arabia and the country south of the western coast of the Red Sea.

According to Gregory ("The Great Rift Valley," p. 51), the Arabs told him that the Red Sea is simply water that did not dry up after Noah's deluge; and the Somali say that when their ancestors crossed from Arabia to Africa there was a land communication between the two across the Straits of Babel Mendeb. There is geological evidence to show that great earth movements have happened along the Great Rift Valley at a recent geological date. There seems to be nothing improbable, therefore, in the possible occurrence of the scriptural manna plant in Central Africa as well as in Arabia. But there are one or two features in the biblical description of manna that call for comment. One is the reason why it kept over the Sabbath without becoming filled with worms and stinking. The directions given to bake or seethe it would naturally kill all insect life in it; and the manna, that was to be preserved for generations as evidence of the Israelites being miraculously fed, was probably baked, and may have become hard or horny in the process. It is not easy to explain otherwise why they "ground it in mills or beat it in mortars," especially as in the fresh state it was soft enough to melt in the sun's heat. The text is difficult to follow, but in Numbers xi. 8 it seems to imply that, after grinding, it was seethed and made into cakes.

The fact that the manna was abundant enough to feed a multitude of people for forty years indicates that by some unrecognised means the plant miraculously increased, and the conditions were those of uncultivated land, since it ceased when they "came to a land inhabited," "in the borders of the land of Canaan."

Another point is the continuous production of the plant for forty years and all the year round. But we have the evidence at home that the mushroom, which in the wild state is usually confined to August and September, can be produced all the year round if the natural conditions of heat, moisture, and food are artificially provided. There may have been conditions connected with the manner of life of the people which produced artificially the requirements of the plant. At all events, the study of the life-history of the manna plant in the future offers many interesting problems to the research workers at Khartoum, or elsewhere, if the plant can be obtained and cultivated.

The Economic Resources of Burma.

VII.—Burmese Lac.

Lac, which is a resinous incrustation formed on the twigs and young branches of a number of trees of the *Ficus* species, comes to Europe principally from India, Siam, and Burma. The term "lac" comes from Sanscrit, and is the same as the numeral lakh—a hundred thousand—indicative of the countless hosts of insects which made their appearance with every successive generation. They are closely allied to the cochineal insect, found in Mexico and the West Indies, yielding like it a red-colouring matter. The minute larval insects fasten in myriads on the young shoots, and, inserting their long proboscides into the bark, draw their nutriment from the sap of the plant. The insects begin at once to exude the resinous secretion over their entire bodies, forming in effect a cocoon, and the separate exudations coalescing, a continuous hard, resinous layer, regularly honeycombed with small cavities, is deposited over and around the twig. From this living tomb the female insects, which form the bulk of the whole, never escape. After their impregnation, which takes place on the liberation of the males, about three months from their first appearance, the females develop into a singular amorphous organism, consisting in its main features of a large, smooth, shining, crimson-coloured lac—the ovary—with a beak stuck into the bark, and a few papillary processes projected above the resinous surface. The red fluid in the ovary is the substance which forms the lac dye of commerce. To obtain the largest amount of both resin and dyestuff it is necessary to gather the twigs, with their living inhabitants, from May to November, but the time varies somewhat in the different localities, depending on the varied rainfall in each. Lac encrusting the twigs gathered is known in commerce as "stick lac." The resin is crushed by means of machinery, and then washed by certain scientific processes, which bring out the colouring matter, and is then known to the trade as "seed lac." This, again, is subjected to chemical treatment, and melted before a furnace heated by means of a charcoal fire. This process completed, it is shipped to Europe, America, and other countries of the world, to be utilised for various purposes, amongst which in ordinary times, polish, sealing-wax, sugar-coating, and lacquering may be mentioned. During the war it was used as a coating for explosive shells, and found most valuable for the purpose. In 1918, Burma exported to the United Kingdom 1,912 cwt., valued at Rs.2.60 lakhs, against 74 cwt. in the year previous, valued at Rs.0.04 of a lakh. Shipments from Burma to India fell in 1918 from 24,911 cwt. to 15,825 cwt., but the value rose from Rs.8.94 lakhs to Rs.9.40 lakhs.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Jan. 1.

THE markets having been closed during the larger portion of the week there is little to report, the home trade being busy with stocktaking and end of the year operations. Business has, therefore, been on a very limited scale, with small attendances. Apart from the drug-trade, however, the closing days of the year have been characterised by a remarkable outburst of speculation in rubber, shellac, turpentine, cotton, and metals. It is also reported that trouble is pending in the rubber market, a large "bear" account having been running for some time past against rising prices. A sum of about a million sterling is said to be involved in these transactions, with liabilities of about a quarter of this sum. To-day (New Year's Day) the produce markets have again been closed. The export side of the wholesale druggists' business, however, continues very active, as so many of the world's markets require replenishment. The fact that no licences are now required to import chemicals which were on the embargoed lists does not appear to have affected prices so far, but it is necessary to sound a note of warning in making forward contracts as fresh legislation may be imposed before the goods arrive. This complicates the future outlook, and until there are more clear indications of what is going to happen the placing of forward contracts, which is the mainstay of an importer's business, is likely to be hung up. Arrivals of crude drugs are of very fair volume, but imports of pharmaceutical chemicals are few. With the resumption of business on Monday, the shellac market advanced a further 15*s.* per cwt., and this was continued on the two following days, the aggregate advance being about 105*s.* Signs of a reaction in the menthol market have not been wanting, and prices are easier again, the same applying to Japanese mint oil. Higher prices are asked for lemon oil in Sicily, but spot values are unchanged. Senega has again advanced in America. Juniper-berries on the spot are easier. Russian and Spanish anise are very scarce; coriander-seed is lower and cumin easier, but in better demand. Canary, dill, fennel, and caraway are slow. Fenugreek is steady. Turpentine is much dearer. Quicksilver is firm, and antimony is likely to advance. Tartaric acid and cream of tartar are dearer. Salicylates, aspirin, and hexamine are all firm, and vanillin shows a rising tendency.

Higher	Firmer	Easier	Lower
Balsam Peru	Copper sulphate	Anise oil, star	Coriander-seed
Chillies	Cream of tartar	Arrowroot	Menthol
Lead compounds	Farina (Jp.)	Cumin-seed	
Shellac	Heliotropin	Juniper-berries	
Turpentine	Peppers	Mint oil (Jp.)	
	Tartaric acid		
	Vanillin		

Cablegrams.

NEW YORK, December 23.—Business is fair. Iodides are lower. Resublimed iodine is now 14c. per lb., iodoform $4.85, and potassium iodide $3.35 per lb. Milk-sugar is cheaper at 30c. Phenacetin has advanced to $2.65. Buckthorn-bark is dearer at 75c. per lb., and balsam Peru has advanced 40c. to $5.00. Senega is again higher at $2.25 per lb.

NEW YORK, December 31.—Business is fair. Senega has further advanced to $2.50 per lb. Buckthorn-bark has risen a further 20c. to 85c. per lb. Quicksilver is lower at $85.00 per bottle.

ALOES.—The *Durham Castle* has brought 313 cases from Mossel Bay.

ANISE.—There does not appear to be any stocks of either Russian or Spanish available, so that quotations are nominal at 80*s.* and 95*s.* per cwt. respectively.

ANISE OIL, STAR.—Prior to the holidays the spot market for "Red Ship" brand eased to 5*s.* 9*d.* per lb., but 5*s.* 10½*d.* now seems to be a more general quotation; 525 packages have arrived from Hong-Kong to London.

ARROWROOT.—Spot supplies of St. Vincent remain heavy, and, although the principal importers have made no reduction in price, there are sellers of old import at 1*d.* per lb. lower rates.

ARSENIC is steady but quiet at about 65*l.* per ton for best Cornish powder. Only limited quantities of Japanese are offering at well under this figure.

ASPIRIN closes the year firmly, some makers asking 4*s.* 9*d.* per lb., with second-hands offering at slightly less.

BALSAM PERU.—The New York price prior to the holidays advanced to $5.00 per lb., a rise of 40c., and on the spot (London) sellers ask 23*s.* per lb.

BERGAMOT OIL.—A Palermo advice, dated December 20, reports a better demand, with a consequently stronger market. London (spot) price is from 21*s.* to 21*s.* 6*d.*

CAJUPUT OIL.—A fair quantity of Singapore recently arrived on this market, holders of which ask 4*s.* 3*d.* per lb.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quiet, with spot sellers at 20*s.* 6*d.* per lb. net, and November-January shipment has been sold at 19*s.* 6*d.* c.i.f.

CANARY-SEED is quiet but unchanged at 215*s.* to 227*s.* 6*d.* per quarter for ordinary to good Morocco.

CARAWAY-SEED is slow of sale at 51*s.* 6*d.* per cwt. for fair Dutch.

CASSIA LIGNEA.—Sales of whole selected have been made at 100*s.* per cwt.

CASTOR OIL is firm, with medicinal offering at 98*l.* per ton ex wharf London.

CHILLIES.—A large export business has been done on American account, up to 82*s.* 6*d.* to 85*s.* per cwt. having been paid for Zanzibar and Mombasa, also 85*s.* for Sierra Leone.

CHLOROFORM.—A slight revision has been made in pure B.P., the makers' list price having been advanced 1*d.* per lb. to 3*s.* 7*d.*, 50-lb. lots to 3*s.* 6*d.*, 2-cwt. to 3*s.* 5*d.*, and 5-cwt. to 3*s.* 4*d.*; half-ton lots remain unchanged at 3*s.* 3*d.*

CINNAMON-LEAF OIL is firm with spot sales of Ceylon at from 10½*d.* to 11*d.* per oz.

CLOVES.—Zanzibar are steady, with small sales at 2*s.* 4¾*d.* to 2*s.* 5*d.* for fair on the spot. Stock of Zanzibar is 12,342 bales, against 8,193 bales in 1918.

COCAINE.—Hydrochloride is unchanged at from 32*s.* 6*d.* to 35*s.* per oz.

COPPER SULPHATE.—The tendency is still upward at about 43*l.* per ton f.o.b. Liverpool for casks. There is a fair export demand.

CORIANDER-SEED is lower, with a fair business at 19*s.* to 19*s.* 6*d.* per cwt. for good Morocco.

CREAM OF TARTAR continues scarce on the spot, and the higher prices of from 270*s.* to 280*s.* per cwt. are quoted. Owing to lack of coal and labour troubles in Italy, the position in regard to future supplies does not improve, and the present high rates are expected to prevail for several months.

CUMIN-SEED.—Rather more business is reported at about 45*s.* per cwt. for good sifted Morocco, being rather easier.

DILL-SEED is quiet at 18*s.* per cwt. for ordinary East Indian.

ELEMI.—The *City of Florence*, from Manila, has brought 350 cases to London.

FARINA.—Prior to the holidays the market closed firmer, spot values of Japanese No. 1 being 38*s.* 6*d.* to 39*s.* per cwt. For January-March shipment sales have been made at 38*s.* per cwt. c.i.f. Sweet-potato flour has been sold at 32*s.* on the spot, and for January-March shipment 31*s.* 6*d.* c.i.f. is asked.

FENNEL-SEED is in quiet demand at 36*s.* 6*d.* per cwt. for East Indian.

Fenugreek-seed keeps steady, with business at 16*s.* per cwt. for good Morocco.

Ginger.—Stocks of Jamaica remain heavy, 7,694 packages against 6,475 packages in 1918, and the stock of Cochin is also heavy, 24,946 bags and cases against 11,367 in 1918. All descriptions have been slow and unchanged.

Heliotropin is firmer and scarce at from 38*s.* to 40*s.* per lb. on the spot.

Hexamine.—New York reports an extreme scarcity, as the makers of formaldehyde are unable to deliver. $1.30 to $1.35 is the nominal price. London market is very firm.

Iodides.—A reduction in the price of iodine and iodide preparations was announced in America previous to the holidays (see cable), but this market remains unchanged.

Juniper-berries have eased about 1*s.* per cwt., fair Italian offering at 30*s.* on the spot

Lavender Oil.—We understand that a parcel of French was recently rejected by a buyer, the analysis showing the addition of a fatty oil in order to increase the ester content.

Lead Products.—The outlook continues strong, in view of the recent further big advance in raw material to the new high record of 45*l.* 10*s.* per ton. Quotations for lead oxides are rather nominal at the recent further heavy advance, incidental to which quotations were fixed as follows: Red lead and litharge for home and export, 63*l.* 10*s.* to 65*l.* 10*s.* per ton, according to quantity. Dry ground white lead 64*l.* 10*s.*, and white lead in oil 75*l.* 5*s.*, both for export.

Lemon Oil.—Some extraordinarily high prices have been received from Sicily, but at the moment there is a lack of interest. Spot parcels can be bought at from 6*s.* 6*d.* to 7*s.*

Lemongrass Oil.—Spot sales of Cochin have been made at 8¼*d.* per oz.; prices range from 8*d.* to 8½*d.*

Lime Oil.—The exports of distilled from St. Lucia during 1918 amounted to 1,447 gals., compared with 300 gals. in 1917.

Linseed.—Good qualities of English are selling at 45*s.* to 47*s.* 6*d.* per cwt.

Linseed Oil remains firm and in good export inquiry. The spot price is now 108*s.* per ton net, naked, ex mill, and in Hull 106*l.* 10*s.* is quoted.

Menthol.—This market has barely opened yet. Meanwhile there have been spot sales of Kobayashi-Suzuki at the cheaper rate of 72*s.* 6*d.* per lb. A slight reaction appears to have taken place recently in the Japanese and New York markets, and has led to an unsettled feeling.

The exports from Japan during September amounted to 5,147 kin, valued at 51,405 yen. During the nine months ended September 30 they were as under:

To	1917 Kin	1918 Kin	1919 Kin
British India ...	9.091	14,0.9	5,844
Great Britain ...	26,497	109,630	45,707
United States ...	138,288	66,802	129,958
Other Countries ...	17.419	17.885	9 4-8
Kin	191,595	208 214	180,317
Yen	1,221,778	1,288,4 9	1,875,363

Mint Oil.—Japanese dementholised (Kobayashi-Suzuki) is easier with spot sales at 17*s.* per lb., and 17*s.* 3*d.* asked.

The exports from Japan during September amounted to 5,119 kin, valued at 21,612 yen. During the nine months ended September 30 they were as follows:

	1917	1918	1919
Kin	168,490	127,282	328,634
Yen	38?.518	271.419	973,199

Mustard-seed.—Good English sells at 95*s.* per cwt.

Nutmegs.—West Indian continue scarce, but further supplies are anticipated early in the New Year. Singapore and Penang are rather cheaper.

Opium.—A Smyrna advice dated December 6 reports a very active market, sales amounting to 111 cases, principally for the Far Eastern markets, at from 14*s.* to 20*s.* per lb., as to quality. The exchange for cheque on London now stands at ps. 360 per pound sterling, and the dollar cheque at $1.12 per one Turkish paper pound of ps. 100. The arrivals in Smyrna to date are 1,180 cases, against 80 at same date last year.

Orange Oil.—Small transactions have kept the Sicilian market lively during the whole of the week (says a Palermo advice of December 20), and as the available supply is very small and in strong hands, a further rise of price has resulted. The market is exceedingly firm, and does not seem to have yet reached its highest level.

Pepper is firmer, with small sales of black Singapore on the spot at 11*d.* to 11¼*d.*, and business in January-March shipment at 11¼*d.* c.i.f., d.w. Lampong on the spot is 11*d.*, fair Tellicherry is 1*s.* 1¾*d.*, and Aleppy 10¾*d.* on the spot. White Muntok on the spot is 1*s.* 5¾*d.* For shipment, December-February and January-March are quoted at 1*s.* 4⅞*d.* c.i.f., d.w. White Singapore on the spot is 1*s.* 5¼*d.* per lb., and January-March shipment is 1*s.* 4*d.* c.i.f.

Pimento is steady, with spot sales at 6*d.* per lb., and sellers.

Quicksilver.—The tendency is very firm, and with small stocks, current quotations are nominal at about 24*l.* to 24*l.* 10*s.* per bottle, second-hands quoting 22*l.* 15*s.* to 23*l.* The American official returns of output for the second quarter of 1919 amounted to 3,940 flasks, compared with 5,960 flasks for the previous quarter. This shows a serious shrinkage, especially when compared with the very big returns secured during the war period. Imports by America thus look inevitable, and this is likely to help in keeping prices at a high level for some time.

Salicylates close the year very firm, B.P. acid powder offering at 2*s.* 10*d.* per lb. and upwards, and sodium salicylate powder at 3*s.* 7*d.* upwards.

Senega.—New York reports (December 15) a very heavy demand for export at $2.00 per lb., with $2.05 to $2.10 quoted, and our cable to-day quotes $2.50. Spot (London) price is 11*s.* per lb.

Shellac.—Further sensational advances are recorded as the year closes, and, comparing prices as on December 31 with those ruling just prior to the holidays, the rise on spot is 105*s.*, and in March and May futures 105*s.* per cwt. It appears that very little shellac was shipped from Calcutta to this country during the first fortnight of December, the figures being: To U.K., 1,100 cwt.; to U.S.A., 24,000 cwt.; to the Continent, 400 cwt., making a total of 25,500 cwt. for the fortnight. During the week spot sales of usual standard TN Orange quality have been made at from 715*s.* to 820*s.*, and AC cakey at from 575*s.* to 640*s.*, and GAL at from 560*s.* to 620*s.* The sales of TN for delivery include March at from 715*s.* to 820*s.* and May at from 710*s.* to 815*s.* To arrive, TN for January-February shipment is quoted at 800*s.* c.i.f. The Calcutta market is closed until Monday, January 5.

Sugar.—The Royal Commission on the Sugar Supply desire to make it known that 115*s.* per cwt., duty paid, ex store, less 1½ per cent. discount, has been fixed as the maximum "reasonable" price for all privately imported or "free" sugar for sale to or re-sale by manufacturers from December 29, 1919, to January 24, 1920, inclusive. Sugar imported by the Royal Commission will be issued for manufacturing purposes at the following prices: 65*s.* per cwt. against jam-makers' vouchers (brown), 100*s.* per cwt. against all other manufacturers' vouchers (blue). This latter price will be in force from December 29, 1919, to January 24, 1920, inclusive, and will be reduced as soon as circumstances permit.

Tartaric Acid is dearer at 3*s.* 4½*d.* per lb. on the spot. Lack of coal and labour difficulties in Italy have led to trouble in the execution of contracts, and the outlook for adequate supplies is precarious at the moment

Turpentine.—A further rapid advance has taken place in American on a very active market, the new high record prices of 156*s.* 6*d.* to 158*s.* having been paid on the spot, also from 147*s.* to 160*s.* for January-April, and 125*s.* for July-December shipment (see also p. 74).

Vanillin is firmer at from 80*s.* to 82*s.* per lb. American makers report a great scarcity, and they are behind-hand with deliveries.

Arrivals of Drugs, Chemicals, and Allied Produce.

The following arrivals have taken place at the ports named :

London

(Dec. 15 to 20).

Agar-agar (Ch.), 7 cs.
Barytes, (Belg.) 300 bgs., (Holl.) 49 cks.
Casein, (B'bay) 18 bgs. 32 bags., (It.)
Chemical products, etc.: (U.S.), 179 cs.
Argol (Sic.), 403 bgs. 44 cks.
Arsenic (Hamb.), 80 cks.
Bromides : ammon., (Anust.) 2 cs., (Hamburg) 14 cs. 1 ck.; potasn, (Antw.) 26 pkgs., (Hamb.) 4 cks. 23 cs.; soda 3 cs. 7 cks.
Calc. citrate (Sic.), 35 cks.
Carbon tetrach. (Fr.), 17 drms.
Cobalt oxide (Holl.), 4 cs.
Copper iodid. (Jv.), 27 brls.
Hydroquinone (Fr.), 11 brls.
Milk sugar (U.S.), 50 brls.
Potash, caustic (Holl.), 167 drms.
Potash pruss. (Holl.), 29 cs.
Potash salts : kainit (Holl.), 2,090 bgs.
Quinine, (S.S.) 10 cs., (Jv.) 1,150 cs.
Soda chlorate (Fr.), 200 cks.
Soda pruss., (Holl.) 6 cks., (Hamb.) 21 cks.
Sulphonal (Hamb.), 1 cs.
Tartar, (It.) 8 cs. 20 brls. 208 bgs., (Sic.) 120 cs., (Fr.) 101 pkgs.
Tartaric acid (It.), 294 brls.
Zinc oxide, (Belg.) 400 brls., (U.S.) 2,250 bxs., (Holl.) 350 cks.
Drugs, crude, etc. : herbs (Fr.), 155 pkgs.; leaves, 108 bls.
Areca, (B'bay) 264 bgs., (Cey.) 80 bgs.
Calumba, (B'bay) 49 bgs., (E. Af.) 283 bls.
Camphor, (Ch.) 25 cs., (Fr.) 30 cs.
Cardamoms, (Cey.) 55 pkgs. 158 cs., (E.I.) 68 pkgs. 8 cs.
Cascara (U.S.), 1,642 pkgs.
Cinchona (Jv.), 124 bls.
Coca (Jv.), 19 pkgs.
Cod-liver oil (Norw.), 10 brls.
Henbane (Tuticor.), 6 bls.
Galls (Ch.), 144 cs.
Insect flowers (Trieste), 137 bls.
Insect powder (Fr.), 27 brls.
Kola, (E. Af.) 12 bgs., (Cey.) 25pkgs.
Liquorice, (It.) 20 cs., (U.S.) 100 cs.
Manna (Sic.), 5 cs.
Menthol (Hamb.), 19 cs.
Nux vomica, (Ch.) 200 bgs., (E.I.) 460 pockets 739 bls.
Opium, (B'bay) 50 chts. 100 cs., (Tky.) 30 bls. 6 cs.
Orange-peel (Sp.), 5 bls.
Rhubarb (Ch.), 177 cs.
Sage (Fr.), 194 bgs.
Senna (Finn.), 685 bls., (pods) 42 bls.
Stavesacre (It.), 32 bgs.
Stramonium (Holl.), 7 cs.
Tamarinds (E.I.), 565 bdls.
Thyme leaves (Fr.), 60 bls.
Turmeric (E.I.), 788 bgs.
Valerian (Belg.), 10 bls.
Drugs, medicines, etc. : (U.S.), 546 pkgs.; emulsion (U.S.), 1,330 bxs.; lysol (Hamb.), 1 ck. 2 cs., vanishing cream (Halifax, N.S.), 1,000 cs.
Dyes, dyeing and tanning materials, etc. : aniline dyes (U.S.), 19 brls. 29 cs.; cochineal (Canar.Is.), 21 bgs.; cutch, (E.I.) 250 bxs., (Holl.) 7 cs.; divi divi (E.I.), 88 bls.; extract, tanning, (Anst.) 262 cs., (U.S.) 210 brls.; gambier, (S.S.) 1,080 pkgs., (Jv.) 3,400 cs.; hematin (U.S.), 10 brls.; indigo (Fr.), 119 bgs.; logwood ext. (U.S.), 40 bxs.; myrabolans (E.I.), 11,955 bls. 4,483 pockets; sumac (Sic.), 1,950 bgs.; wattle bark (Natal), 154 bls.
Egg products : albumen (Ch.), 543 cs.; mélange (Ch.), 54 cs.; whole (Ch.), 315 cs. 35 cks.; yolk (Ch.), 67 cks. 152 cs. 1,677 pkgs.
Glucose (U.S.), 60 brls.
Gums, resins, etc. : not described : gum (E.I.), 100 cs. 997 bgs. 20 pkgs.; acacia (B'bay), 58 bgs.; copal, (E. Af.) 9 cs., (E.I.) 594 cs. 1,219 baskets 1,255 pkgs.; damar (E.I.), 1,015 cs. 910 bgs.; lac : stick (E.I.), 107 cs.; resin (Ch.), 100 cs.
Lead, white (Belg.), 170 brls.
Lithopone, (U.S.) 1,000 lb., (Holl.) 245 cks.
Magnesite (E.I.), 6,278 bls.
Mineral white (Norw.), 992 bgs.
Oils, essential : not described, (Fr.) 12 cs., (Sic.) 20 cs. 144 pkgs., (U.S.) 40 cs., (Sp.) 4 cs. : anise, star (Ch.), 115 cs.; cajuput (Holl.), 200 cs.; cinnamon (Cey.) 12 cs.; eucalyptus (Aust.), 664 cs.; geranium (Fr.), 42 pkgs.; lemon (Sic.), 14 cs.; palmarosa (B'bay), 7 pots; safrol (Jp.), 150 cs.
Oils, fixed : coconut (E.I.), 277 pkgs.; ground-nut (Ch.), 600 cs.; herring (Jp.), 200 cs.; lin (Belg.), 32 tons; liver (Holl.), 50 cs.; olive, (Fr.) 24 cs. 141 pkgs., (It.) 10 brls., (Sp.) 245 brls.; palm (Fr.), 26 cks.; sperm (Azores), 89 brls.; tea (Ch.), 1,400 cs.; wood (Ch.), 877 pkgs.
Perfumery, (Fr.) 10 pkgs., (U.S.) 40 cs.
Seeds : almonds, 537 bgs. 180 cs. 341 sks. 15 bxs. 130 brls. 635 serons; apricot kern., (Ch.) 136 bgs.; (Calif.) 250 bgs.; canary (Fr.), 122 sks., cashew (E.I.), 50 cs.; castor (E.I.), 40 pkgs. 37 bgs.; copra (E.I.), 2,314 bgs.; corossos (Fr.), 174 bgs.; cotton, (E. Af.) 190 bgs., (Alex.) 549 tons, (E.I.) 5,460 bgs., (Belg.) 120 tons 2,840 bgs.; ground-nuts, (Ch.) 255 bgs., (Jv.) 818 bgs.; illipe (S.S.), 383 bgs.; lin, (E.I.) 2,517 bgs., (Fr.) 202 tons, (Ch.) 350 bgs.; mustard, (It.) 2,200 bls. 1,650 bgs., (Denm.) 179 bgs.; niger (E.I.), 300 bgs.; rape (Ch.), 98 bgs.
Soy (Ch.), 230 cks.
Spermaceti (Jp.), 140 cs.
Spices : cassia (Ch.), 100 bls. 750 cs.; cinnamon, (Cey.) 135 pkgs. 200 bls. 100 cs., (B'bay) 241 bls.; cloves, (E.I.) 105 bdls. 60 cs., (E. Af.) 2,167 bls.; ginger (B'bay), 200 bgs.; mace (Jv.), 34 cs.; nutmegs (E.I.), 47 bgs. 110 cs. 393 pkgs.; pepper (E.I.), 23,126 bgs. 78 pkgs.
Starches, etc. : dextrin (Holl.), 50 bls.; farina (Jp.), 1,169 bgs.; maize, (U.S.) 3,150 bgs., (Holl.) 500 cs.; wheat (Jp.), 600 bgs.; rice (Antw.), 300 cs.
Talc, (It.), 600 bgs.
Vanilla, (Fr.) 47 cs., (Aust.) 281 cs.
Wax, bees', (E. Af.) 254 pkgs. 685 bgs. 65 bdls., (E.I.) 316 bdls.
Wax, paraffin (U.S.), 1,480 bgs. 411 brls., (scale) 1,000 brls.
Zinc white (Belg.), 800 bgs.

Liverpool

(Dec. 15 to 19).

Barytes (Antw.), 300 brls.
Chemical products, etc.: Arsenic (Hamburg), 85 cks.
Calc. acet. (U.S.), 3,623 sks.
Calc. borate (Chile), 3,982 bgs.
Soda, nitrate (Chile), 19,307 bgs.
Sulphur (Sic.), 4,856 bgs. 7 cks. 168 brls.
Drugs, crude : Cevadilla seed (S. Amer.), 100 bgs.
Cinchona (Colon), 41 bls.
Cod-liver oil (St. Johns, N.F.), 337 pkgs.
Condurango (Colon), 150 sks.
Copaiba (P'buco), 10 cs.
Galls (Tky), 100 bgs.
Guarana (P'buco), 3 cs.
Liquorice juice (Sic.), 30 cs.
Liquorice root (Sic.), 5 bgs.
Opium (Tky.), 125 cs.
Squills (Sic.), 35 bgs.
Drugs, medicines, etc. : (U.S.), 74 cs.
Dyes, dyeing and tanning materials, etc. : cutch (E.I.), 200 bxs.; extract, tanning (Antw.), 100 cks., (U.S.) 3,258 brls.; saffron (Valenc.), 45 cs.; sumac (It.), 250 bgs.; yellow berries (Tky.), 87 bgs.
Gums, resins, etc. : copal (Antw.), 185 bgs.; tragacanth (Tky.), 26 bgs.
Honey (S. Amer.), 669 brls.
Oils, fixed : cod (St. John's, N.F.), 817 cks.; olive (Fr.), 169 cs.; palm (W. Af.), 1,344 cks. 220 puns. 140 hhds. 183 brls.; teelseed (E.I.), 2,500 cs.
Seeds : almonds, 420 bgs. 20 cs.; canary (Tky.), 310 bgs.; copra (W. Af.), 309 bgs.; cotton, (S. Amer.) 13,853 bgs., (Antw.) 1,605 bgs., (E.I.) 4,838 bgs.; groundnuts (W. Af.), 322 bgs.; palm kernels (W. Af.), 189,947 bgs.; rape (E.I.), 2,979 bgs.
Wax, bees' (Alex.), 32 bgs.
Wax, carnauba (P'buco), 12 bgs.

Grimsby

(Dec. 13 to 18).

Aniline dyes (Antw.), 145 cs. 159 pkgs.; bronze pdr. (Holl.), 5 cs.; isinglass (Holl.), 44 brls.

Hull

(Dec. 15 to 18).

Acetic acid (N.Y.), 444 brls.; barytes, (Holl.) 136 cks., (Belg.) 100 bgs.; carbon black (N.Y.), 800 cs.; cinnamon (B'bay), 20 cs. 47 bls.; cryolite (Denm.), 900 bgs.; formic acid (R'dam), 195 cbys.; ginger (W. Af.), 300 bgs.; hematin (N.Y.), 125 brls.; lead, sugar (N.Y.), 32 brls.; lithopone, (Holl.) 391 cks., (Belg.) 40 brls.; logwood ext. (N.Y.), 75 brls.; manganese ore (E.I.), 2,000 tons; myrabolans (E.I.), 992 bgs.; petroleum jelly (N.Y.), 115 brls.; resorcin (N.Y.), 18 brls.; Seeds : caraway (Holl.), 30 bls.; castor (E.I.), 17,398 bgs.; copra (W. Af.), 2,435 bgs.; cotton, (Alex.) 5,611 tons, (E.I.) 25,174 bgs.; groundnuts (W. Af.), 15,582 bgs.; jamba (E.I.), 57,786 bgs.; lin (E.I.), 20,676 bgs.; palm (W. Af.), 36,140 bgs.; rape (E.I.), 925 bgs.; soda silicate (N.Y.), 40 kgs.; wax, paraffin (scale) (N.Y.), 665 brls.

Manchester

(Dec. 13 to 17).

Acetic acid (U.S.), 81 brls.; antimony salts (Fr.), 9 pkgs.; calc. carbide (Can.), 1,000 drms.; emetic tartar (U.S.), 76 cks.; paraffin wax (N.Y.), 53 bgs.; phosphorus (Can.), 500 cs.; potashes (Can.), 3 brls.; soda chlorate (Swe.), 200 cs.; vaseline (U.S.), 149 brls.

Southampton

(Dec. 15 to 19).

Casein, (Fr.), 140 bgs.; cotton-seed (Alex.), 2,000 tons; drugs (Fr.), 6 cs.; essential oils (Fr.), 3 cs.; tartar (Fr.), 136 bgs. 20 cks.; thorium nitr. (Fr.), 2 cs.

German Drug and Chemical Markets.

In the introductory remarks to its market report for December, a leading wholesale drug-house of Hamburg "sees a ray of hope in the fact that the dock workers of Northern Germany have decided to return to the system of piece-work. The resumption of payment on the basis of piece-work would be a step forward in the task of building up the economic life of Germany, but the new, heavy conditions imposed by the Entente damp this ray of hope. In spite of increased prices business continues to be very brisk, and, sad to say, notwithstanding the constant advance in prices, foreigners find that German goods are cheap in consequence of the depreciated currency, and are busily engaged in buying up stocks. Consequently, for the present, what is being produced is exported, without bringing in a corresponding advantage." The following prices are quoted in marks per kilo. :

AMMONIUM BROMIDE has now reached m.48 net.

ASPIRIN (genuine) is gradually becoming scarce, both at the manufacturers', and in second-hands. Acetyl-salicylic acid has advanced in sympathy to m.190 net.

BENZALDEHYDE almost free from chlorine, in consequence of manufacturers being scarcely able to supply, now fetches m.85.

BENZOIC ACID has advanced, and is quoted at m.62 net.

BISMUTH SUBNITRATE is m.280, bismuth subgallate m.260; both are scarce.

CAFFEINE benzo-salicylate and sodio-salicylate have both advanced to m.250 net.

CAFFEINE (PURE).—Makers are out of supplies; it has been purchased by foreigners from dealers at m.450 net.

CAMPHOR (REFINED) is out of stock. Camphor substitute for technical uses remains unchanged at m.9 net.

CHAMOMILES.—Several orders have been cancelled owing to insuperable transport and other difficulties, and this has led to a shortage. Ordinary is quoted m.20 gross for net and new crop m.22.

CITRIC ACID.—Contrary to conditions usually prevailing at this season this article was in brisk demand, and as the manufacturers are now almost cleared of supplies the price has advanced to m.105 net. A further advance seems likely.

COUMARIN is now not so much in demand, and is quoted m.540 net.

CREAM OF TARTAR readily fetches m.40 net owing to the almost entire absence of supplies from manufacturers.

GLYCERIN (white, 28°, sp. gr. 1.23).—In spite of manufacturers having advanced, the price is still quoted at m.14.50 net in original carboys.

(To be continued.)

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The War Auxiliary Benevolent Fund.

Sir,—Hundreds of chemists in the country would like some particulars of the distribution of the War Auxiliary Benevolent Fund, amounting, I believe, to some 14,000*l.* Our local association put up 80*l.* odd, and, with many others, are entitled to some enlightenment as to what is being done with the money.

Yours truly,
Southend. E. A. Holloway.

Compulsory Dispensing.

Sir,—I hope every chemist in Ireland will protest energetically against the motion which Dr. McWalter is bringing forward at the next meeting of the Council of the Pharmaceutical Society of Ireland—viz., to empower the Council

to remove from the Register the name of any chemist found guilty of refusing to compound medicines for any member, or ex-member, of the Forces of the Crown, or for any person seriously sick.

One is tempted to ask, "What is Dr. McWalter's reason for this New Year's gift?" Nothing but the gravest necessity can justify such an invasion of our liberty, and I submit that there is not even a remote necessity for it. Dr. McWalter is familiar with the habits of both chemists and doctors, and I do not think he will contradict me when I say that the doctors are, to an infinite degree, the greatest offenders in this respect. Then why not place his resolution before the General Medical Council? And when they accept it he can bring it to the Pharmaceutical Council. If he agrees with this we shall not hear of it at Lower Mount Street for a long time to come. At all events, I do not think the Pharmaceutical Council have power under their constitution to enforce such a resolution. I have not the slightest fear that this motion will succeed, but in order that the members of the Council may be able to measure the support they will receive from the pharmacists of Ireland I think the subject should be discussed in your columns.

Yours truly,
Ballybofey, co. Donegal. A. E. Ferris, M.P.S.I.

Profiteering Act Persecutions.

Sir,—The figures given officially as to the results of the Profiteering Act are well worth consideration; out of nearly 2,000 complaints only twenty-four actual convictions have been secured, while the total expense to the country has been 25,000*l.*; so that when a member of the public manages to obtain a conviction against a chemist for overcharging 1*d.* on a lump of camphor he has the satisfaction of knowing that he has increased the taxes by 1,000*l.* Could anyone imagine a more successful triple alliance of waste, extravagance, and absurdity combined? Yet the same Government which encourages this on the one hand, on the other is most meticulous in pricing chemists' accounts down to the third place of decimals, in case the funds should be overdrawn.

Yours faithfully,
Meticula. (81/7.)

What's Wrong with the Drug Business?

Sir,—This question, though often asked, still remains unanswered. I hold the two diplomas in pharmacy of the British Isles, and possess references which are all that could be desired; these, however, despite practical experience of a quarter of a century in leading businesses in city and provincial towns, cannot obtain for me the barely living wage of 4*l.* 15*s.* weekly. I have not as yet become a member of the Drug Union, the membership subscription of the Pharmaceutical Society being sufficient tax on the remuneration I have been receiving. I have a wife and family, and owing to the housing question I was obliged recently to resign a position, and am now disengaged. Demobilisation to some extent no doubt explains the number of unemployed, and I recognise readily the prior claim of all who "have done their bit." Still, if we are seriously endeavouring to compete with foreign nations (and no one knows better than the chemist how far behind we have been in the past), surely our manufacturing firms can avail themselves of the services of most of the qualified men who are out of employment. Those who have spent years in study, and in many instances accumulated, at great sacrifices, the necessary guineas for tuition and examination fees, have good reason to complain when they cannot secure positions sufficiently remunerative to permit them to live as well as work. Inadequate wages generate inferior assistants, and the number of unqualified men who are putting their savings into the launching of "limited companies," much of which should be in "certificates," is alarmingly on the increase. I refuse to believe that present profits in the drug-trade will not admit of decent wages being paid to employés, as witness the dividends of our multiple-shop companies.

Yours truly,
Argus. (18/12.)

Sir,—The letter of your correspondent, "Sliding Scale" (*C. & D.*, December 20, p. 75), is one which should be read and noted by all assistants who have their future welfare, and the welfare of others who are entering the business, at heart. He quotes present wages, which have already dropped below last year's rates, and speaks of a probable decrease. Unfortunately, he is right, unless assistants will organise and demand a living wage. My own case is typical of many. Last year I was, and still am, earning 5*l.* a week, as against 2*l.* 5*s.* pre-war. Now I wish to make a change I am simply ignored if I ask even 4*l.* a week. Yet the cost of living is 105 per cent. higher than pre-war. How can an unqualified man ever hope to save enough to get qualified on, with a wife and family to keep? I do not propose to enter into the foolishness of unqualified men marrying, as that has been thrashed out before, but I do appeal for unity among assistants. Let us organise ourselves to secure the right to live.

Yours faithfully,
Trade Union. (131/43.)

The Draft Medical Benefit Regulations.

Sir,—Clause No. 6 of the Draft Medical Benefit Regulations for 1920 (*C. & D.*, December 27, p. 68), which provides for the supply of bottles on payment of a deposit, adds yet another burden to the duties which the panel pharmacist has to undertake free, gratis, and for nothing. At the present time it is practically impossible to obtain bottles, especially the larger sizes mostly favoured by panel practitioners, and when delivery is effected the percentage of breakages is so much higher than in former days that it adds considerably to the cost. The return in clean condition is a difficulty in practice, as mixtures which deposit, emulsions, or oily liniments require more cleansing than the average customer will undertake, but the deposit will have to be refunded all the same; and, again, frequently when washing the bottle the deposit label is washed off, so that the pharmacist is never sure whether he is taking back his own bottle or not. In these days, when the labourer and the mechanic present unceasing demands for more pay and less work, and then more pay again *ad infinitum*, and invariably obtain what they require, it is amazing that a Government should pile these various obligations on a body of conscientious workers without any attempt at adequate remuneration, and I am afraid that we shall at long last have to take a leaf from the mechanic's book and try the effect of direct action before we receive any proper consideration.

Yours faithfully,
Clause Six. (139/9.)

Chemists' Trade Unions.

SIR,—Why does "Xrayser II." think that we can get the "leopard professors" to change their spots by calling themselves a trade union? There is every evidence that the Progressive Pharmacy Club is only "progressive" in name, and is more stiff-necked on "Titles," "Profession," and hot air generally than all the other advisers who, having left retail for their own good, are mindful of their poorer brethren still toiling at the counter. Trade unionism stinks even in the nostrils of the working man, and though I grant that the masters and officials in England need the big stick before they will leave their golf and dining-out to consider any question, still I am very chary of giving my personal freedom into the hands of any union founded on hot air especially. Messrs. Woolf and Humphrey's ideas may be all right, but I know and don't need to argue that the others are simply impossible, because their ideas and ideals are not in accord with the daily wants of the everyday druggist. "Hot air" ruined Insurance dispensing for us; the senseless quarrelling with the doctors over stock mixtures was wrong, and led to discounting and the loss of half a million of money to the trade, and ultimately led to the present poor price, which is actually a permanent discount from the 1913 terms, which latter would have paid us reasonably well had we retained them. Some Committees even paid copying-fees until waste swallowed the cash. You, fellow-pharmacists, lost the good will of the Commissioners, and you largely deserved to. You send to every Council, and even to Parliament, safe men, slow-minded, long-winded orators, who can be relied on to do nothing in a hurry. Then when you call for hurry you are disgusted to find they can't hurry; the very system is intended to stop them; and you call them "the old gang." Why, then, expect a few more orators, working with the good old dead Committee system, to do anything right? During the last two or three years trade has boomed to such an extent that even chemists in suburbs were so busy that they have got more impatient with Insurance dispensing every year, and more disgusted with our brainless leaders. But let me warn these men that England will slowly return to Free Trade; we see it every week, and, in fact, if Germany is ever to return to normal we know that England must again buy very largely from Germany. We have enormously increased our home market, and our private traders of every sort will have plenty of trade for the next ten years, because of the generally higher wages which will continue, and a greater number of employed persons. But "dinna forget" that profits will come down, and in any case the plums will go to the druggists in good positions; therefore let those men who are in the doctors' quarters think twice before kicking out Insurance dispensing work, which many of us would like to do, simply because (1) it helps the suburban man, and (2) when the hot-air men die off or leave the trade we will make peace with the doctors, and it will then pay us as well as we can reasonably expect it to do. Every trade union (barring the doctors' British Medical Association) gets dictatorial, and the officials simply ride rough-shod over the members. Besides, in two years' time the whole business of "strikes" will be illegal, and would be now if our Prime Minister had the necessary courage. Every reform of that sort has been rushed on the nation—*e.g.* (1) duelling stopped; (2) compulsory education; (3) Free Trade; (4) conscription. Without a strike a union will be as useless as the Pharmaceutical Council. Why, therefore, form a Union, when all you have to do is to (1) scrap your "hot-air" ideas, and (2) compel the Council to hustle with reforms of a real nature? The Council has the money, the prestige, the executive power, the organisation all ready, but you don't demand reforms of a real nature. In one hour the whole of our trade difficulties could be solved by half a dozen men. But you would have to cast the Jonahs overboard, and they are too cute for you. And it is the "Jonahs" of our craft that provide the hot air, while their unqualified but highly efficient and experienced assistants keep the business and the villa in the select suburbs going. These men will join a union; they will join anything; but if you dare to alter your examination system, or make up for twenty years' neglect by passing a by-law bringing in Apothecaries' Hall men, then down they come in thousands shouting for somebody's blood. After getting a dose of Welsh soothing syrup they do as they are told, and forget they have spent 5,000*l.* in fares and expenses—they have vindicated their honour; what more can you want? This union proposal amuses me greatly. It is the last ditch; it is the limit; and I believe the Council secretly encourages it, for thereby the Council can continue the "hot air" for another year or so while the union looks after the shekels. The Council knows "what is coming to it." It knows what the Health Department schemes are like; it is preparing to evacuate the position. Meantime, the successful business men among us can afford to look on at the antics of these "shoneen" professors (as McWalter once called a section of our trade), secure in the fact that our businesses are built on sound lines and are from 200 per cent. to 400 per cent. ahead of what they were in 1900, in spite of "an effete and discredited Council."

Yours truly,

JAY MACK.

Legal Queries.

T. S. (130/68).—The sale of a liquid containing 5 minims of tincture of nux vomica to the ounce comes within the requirements of Part 2 of the Schedule of Poisons of the Poisons and Pharmacy Act, 1908. It must be labelled "Poison," and bear the name and address of the qualified chemist who sells it.

J. W. B. (120/49).—When the sale of a proprietary medicine takes place in Ireland the conditions as to stamping are required to be in uniformity with the laws of the place of sale. As the Medicine Stamp Act does not apply to Ireland you are not required to stamp medicines which in Great Britain would need stamping.

S. P. (30/12) writes: A was engaged as assistant by B and was at business one month, then ill for two months. A locum was engaged at the same weekly salary to take the place of A. Is A entitled to his two months' salary, or can B deduct locum's salary from A's two months' salary, no arrangement being made as to salary during illness? [A is entitled to his salary until his engagement is terminated by a month's notice on either side. B is not entitled to pay A's salary to anyone else.]

H. S. L. (122/7).—The "known, admitted, and approved remedies" exemption from stamp duty in the Medicine Stamp Act does not apply to persons other than those mentioned in the Act. If you are not one of the exempted persons you cannot acquire exemption by employing a chemist. A limited company carried on in the manner laid down in the Poisons and Pharmacy Act, 1908, is, however, entitled to benefit by the exemption as to "known, admitted, and approved remedies."

H. J. P. (123/73) recently received a note from a customer asking him to send a remedy for worms for a puppy 2½ months old. "H. J. P." forwarded a powder and the puppy died ten minutes after it had been administered. A veterinary surgeon expressed the opinion that the powder was harmless, but should have been given to the puppy in milk. In fact the powder was placed upon the puppy's tongue dry, with the result that part of it got into one of the animal's lungs, causing its death. The customer maintains that "H. J. P." should have given instructions regarding the administration of the powder and claims the value of the puppy. How does "H. J. P." stand? [In our opinion, assuming the powder supplied was appropriate, "H. J. P." was not guilty of negligence in failing to instruct his customer not to administer the powder in a dry state, and is therefore under no liability to his customer. On the other hand, if death was the probable result of giving the powder dry, which is a matter for expert evidence, the Court might hold "H. J. P." liable to pay damages.]

Miscellaneous Inquiries.

M. E. H. (119/41).—We do not supply separately a list of scheduled poisons, but subscribers receive the complete list in *The Chemist and Druggist Diary* each year.

C. M. (132/60).—The Cambrian Essence or Smoke Essence, used for imparting a flavour of smoke to fish or bacon, is used either by dipping the food into the liquid or painting it on the bacon.

H. J. S. (108/30).—No age-limit is laid down in the regulations regarding the admission of candidates to Part I. of the Qualifying examination of the Pharmaceutical Society. You will note, however, that the required courses of study ensure that, as a rule, candidates will not be much under eighteen. (See *C. & D.*, August 16, 1919, p. 83.)

W. G. (130/3).—Dilution for Sulphuric Acid.—The following is Anton's table for diluting sulphuric acid to definite specific gravities. A mixture of 100 parts by weight of water at 15°-20°C. with x parts of sulphuric acid of 1.84 specific gravity will give an acid of specific gravity y.

Parts x	Sp. Gr. y	Parts x	Sp. Gr. y
1	1·009	250	1·630
2	1·015	260	1·640
5	1·035	270	1·648
10	1·060	280	1·654
15	1·090	290	1·667
20	1·113	300	1·678
25	1·140	310	1·689
30	1·165	320	1·700
35	1·187	330	1·705
40	1·210	340	1·710
45	1·229	350	1·714
50	1·248	360	1·719
55	1·265	370	1·723
60	1·280	380	1·727
65	1·297	390	1·730
70	1·312	400	1·733
75	1·326	410	1·737
80	1·340	420	1·740
85	1·357	430	1·743
90	1·372	440	1·746
95	1·386	450	1·750
100	1·398	460	1·754
110	1·420	470	1·757
120	1·438	480	1·760
130	1·456	490	1·763
140	1·473	500	1·766
150	1·490	510	1·768
160	1·510	520	1·770
170	1·530	530	1·772
180	1·543	540	1·774
190	1·556	550	1·776
200	1·568	560	1·777
210	1·580	570	1·778
220	1·593	580	1·779
230	1·606	590	1·780
240	1·620	600	1·782

J. M. (131/72).—(1) There is no chemical process for removing graphite marks from paper. With a soft rubber the surface of the paper need not be touched. (2) Solid Eau de Cologne is made by heating for an hour in a closed vessel 95 parts of eau de Cologne, 4.5 parts of stearin, and 0.5 part of sodium carbonate.

J. M. (125/31).—Meat-and-Malt Wine.—The addition of extract of meat 4 oz., extract of malt 8 oz., and glycerin 2 oz. to a gallon of port wine makes a good beef-and-malt wine. The wine requires filtering from the sediment.

W. C. (114/39).—(1) The concession allowed to chemists and companies carrying on business in conformity with the Poisons and Pharmacy Act, 1908, to sell, under certain conditions, the medicated wines of the British Pharmacopœia without having a wine-licence, does not apply to other persons. (2) The corn-silk envelope which you send renders the plaster sold with it liable to stamp-duty.

E. S. (113/17).—Book on Drugs and Chemicals.—For a beginner in the office of a drug and chemical broker the "Condensed Chemical Dictionary," published at $5 by the Chemical Catalog Co., 1 Madison Avenue, New York, is a useful work.

J. C. (117/8).—(1) Brine for Bacon-curing.—The pickle used for bacon-curing on the factory scale consists of

Salt	55 lb.
Saltpetre	lb.
Boric acid	2½ lb.
Borax	2½ lb.
Sugar (in winter only) ...	5 lb.
Water	20 gals.

Stir until dissolved; allow to stand until clear, and decant, or boil the liquid and remove the scum. (2) In regard to the setting of lard, the point here is that the temperature of the country has a lot to do with the difficulty in hardening lard so that it can be packed in grease-proof paper. It would not be permissible in this country to add extraneous hardening fats to lard, but possibly lard stearin might be employed for the purpose.

M. J. H. (129/62).—Books on the Manufacture of Aerated Waters.—"Pharmaceutical Formulas" (office of The Chemist and Druggist, 15*s.*); Sulz's "Treatise on Beverages" (Dick & Fitzgerald, New York); "The Practical Mineral-water Maker" (Bratly & Hinchliffe, Ltd., 5*s.* 6*d.*); "Aerated Beverages, Cordials, etc." (Stevenson & Howell, Ltd., 7*s.* 6*d.*); Piard's "Manuel Pratique du Fabricant de Boissons Gazeuses, etc." (Legendre & Cie., Paris); "Mineral-water Maker's Manual," containing Goold's "Aerated Waters and How to Make Them" ("Mineral Water Trade Review," 5*s.*).

F. E. B. (126/73).—Petrifying Liquid for Flowers.—The liquid to which you refer employed for preserving flowers in a natural condition is made, we believe, by dissolving paraffin wax in benzine. The flowers are dipped in the liquid and dried in the air.

H. & Co. (261/32).—Skin Tablet.—The following is a good formula for a skin tablet. It can be coloured green by means of a small quantity of chlorophyll.

Cut fresh white curd soap ʒj. into shreds and place in a hot mortar containing finely powdered borax gr. xxx. Then add hot water ʒj. and beat into a perfect paste. Melt together in a water bath anhydrous lanolin ʒij. and powdered camphor gr. xxx., then add the soap paste and rub to a perfectly smooth paste with a hot pestle. Finally add oil of rose geranium miv. and mould into blocks, which should be wrapped in tinfoil.

Retrospect of Fifty Years Ago.

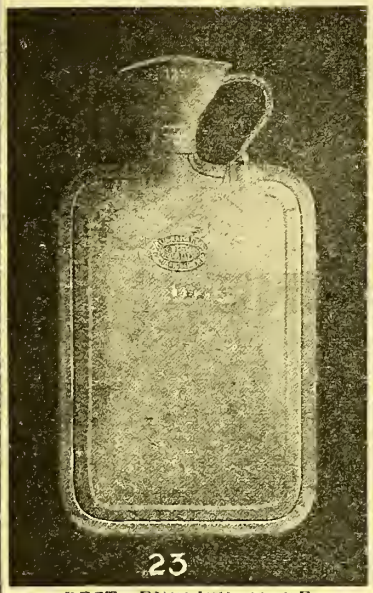
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Trade Report.

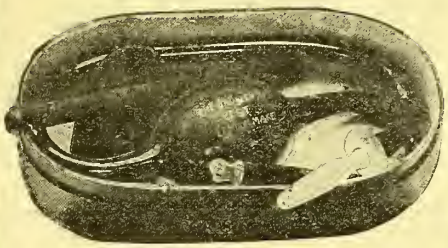
A sanguine financier, it is said, digs a pit for his own fame. In what a multitude of instances has this been verified during the past three years! Since the terrible commercial catastrophes of 1866, how constantly have we been informed in one form of words or another that things were just going to take a turn, and that we were on the eve of brighter days! And yet how slowly has this turn approached! The country has paid a severe penance for its reckless dash of four or five years ago, and in some quarters the hope so long deferred seems to have almost sickened the sanguine hearts of those who have so persistently prophesied better days in store, and consequently the chief authorities on trade look forward to 1870 with caution, if not timidity. But—we address ourselves to those who so earnestly look for what they understand to be a revival of business, and we ask whether they know exactly the perils of that which they seek. Confidence in business, to a great extent, is necessary, it is true, but who wishes to see a renewal of that blind, mad confidence which characterised 1865 and 1866?

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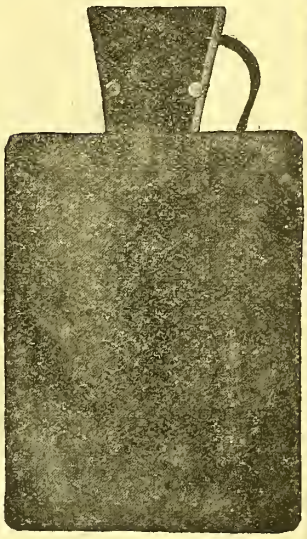
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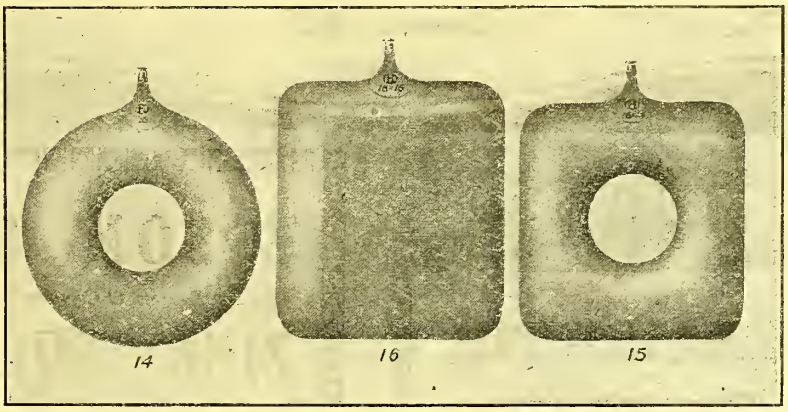
SEAMLESS ENEMAS.



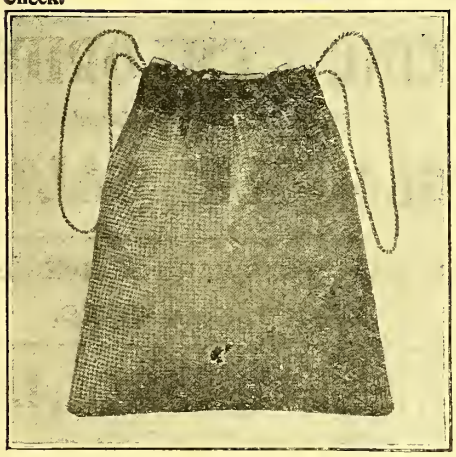
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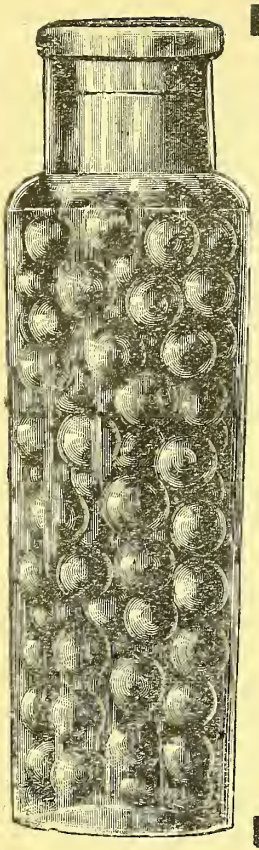
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Reference —BRADSTREET'S, DUN'S, or any Bank in New York.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

Jan. 3, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
	Allen & Hanburys' Specialities—		doz.
3/-	Coca Bynin A. & H.	3/-	27/-
5/6	,, ,, ...	5/6	49/6
1/-	**Bond's (John) Crystal Palace Marking Ink** ...	10½d.	7/-
	Lofthouse & Saltmer's Preps.—		
1/6	Losall's Asthma Remedy ...	1/6	12/-
2/6	Osmos Aperient Water ...	2/6	22/-
	Quibell Bros.' Preps.—		
1/-	Kerol Disinfectant Fluid ...	1/-	9/-
1/6	,, ,, ...	1/6	13/6
10½d.	,, Sanitary Powder ...	10½d.	7/10
1/4	,, ,, ...	1/4	12/-
	,, Medical Capsules (Stomachic)		
1/3	,, 3 min., box of 25 ...	1/3	11/3
2/3	,, ,, ,, 50 ...	2/3	20/6
4/-	,, ,, ,, 100 ...	4/-	36/-
3/6	,, 1 min. ,, 100 ...	3/6	31/6
	,, Medical Capsules (Intestinal)		
1/6	,, 3 min., box of 25 ...	1/6	13/6
2/9	,, ,, ,, 50 ...	2/9	24/9
5/-	,, ,, ,, 100 ...	5/-	45/-
4/6	,, 1 min., ,, 100 ...	4/6	40/6

WE OFFER FROM STOCK

PASTILLES. 3- per lb. free 4-lb. packages.
1-oz. tins ... 3/6 doz
2-oz. ,, ... 6/- ,,
4-oz. ,, ... 11/6 ,,
Antiseptic, Eucalyptus, Glycerine, Pynoline, Eucalyptus & Menthol, Menthol, Glycerine and Black Currant, Pine, Eucalyptus and Menthol, etc.

LOZENGES. All varieties.

CAPSULES. All varieties.

COMPRESSED TABLETS.
Chlorate Potash, gr. v, 3/6 lb.
Soda Mint, 1/6 lb.
Formalin Mint, 2/6 lb. (50's 7/- doz.)
Pine, 2/2 lb.
Bismuthated, 2/2 lb.
Aspirin, gr. v, 5/- lb. (100's 12/9 doz., 25's 4/3 doz.)

SACCHARINE TABLETS. 0.3 gr. 550 in each, 50/- lb, 100's 10/- doz. in envelopes. 100's 11/- doz. in tins. 1000's 7/6 each.

QUININE & CINNAMON PERLES. 24's 13/- doz.

AMMON. QUIN. CAPSULES. 1 dr. 24's 13/- doz.

SANTAL OIL CAPSULES mx. 24's 31/- doz.

JULES DENOUAL & CO.
Carlton Works, **ASYLUM ROAD, LONDON, S.E. 15.**

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JABEZ WOLFFE'S

Channel Embrocation

The finest preparation for Rheumatism, Sciatica, Neuritis, Muscular Stiffness, Sprains, Cramp, Stings and Bites.
Should be stocked by every Chemist.
Prices: **1/3, 3/-, 5/-** per bottle.
Trade terms: 25% & carriage paid on orders of £3 & upwards.
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Agents required for certain areas.

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On the P.A.T.A.

The genuine remedy for
ECZEMA, CUTS, BRUISES, SORES, BURNS, PILES, PIMPLES, BAD LEGS, SORES on HEAD, CHAPPED HANDS and ALL SKIN TROUBLES.
Liberal Terms to the Trade.
Apply to your Wholesaler or to
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For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

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Liberal discount allowed Agents, and commission to Travellers.

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The fast-selling Constipation-Cure is



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We shall be pleased to send you showcards gratis.

International Chemical Co., Ltd.
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WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	**10s. 6d.**	per doz. net.
3s. 0d. „	**26s. 6d.**	„ „
5s. 0d { new size ... ... contains double the quantity of 3/- box.	**50s. 0d.**	„ „

Beecham's Cough Pills:

1s. 3d. size	**10s. 6d.**	„ „
3s. 0d. „	**26s. 6d.**	„ „

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE. Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

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A REMEDY OF ESTABLISHED AND DEFINITE VALUE

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Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

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PIPERAZINE CITRATE IS MADE ONLY BY ALFRED BISHOP, LTD.

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

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Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

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"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.

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"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

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Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spa treatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

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1/3 Healo Skin Ointment 11/6 per doz.
3/- „ „ „ 29/6 „ „

(Bonus of ½ doz. with 4 doz., 1 doz. with 6 doz.)

EVEN at the increased figure HEALO still gives the biggest margin of any article of its kind now on the market.

Particulars of our special Advertising and Window Show Schemes we shall be pleased to give.

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***Manufacturing Chemists*, KIDDERMINSTER.**

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

	per doz.
D.D.D. Prescription 2/9 bottle, M.R.P. Face Value, @	25/6
„ „ 5/- „ „ „ „	47/-

In two strengths—Ordinary and Strong.

	per doz.
D.D.D. Soap ... ... 1/- tab. M.R.P. Face Value, @	8/3
„ Shaving Soap ... 1/6 stick „ „ „	13/6
„ Vanishing Cream 2/6 jar „ „ „	22/6
„ Shampoo Powders 2/6 box „ „ „	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

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CHAPPED HANDS
Sold Everywhere at the Popular Price - 3d.
Trade Prices.—6 doz. 12/- net ; 12 doz. 23/6
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13 to the dozen for cash with order.
Discount—Orders of £1, 2½%, £5, 5%, £10, 7½%.
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13 dozen tablets per parcel post with advertising matter 23/6, less 2½%.
ORDER NOW.

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For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.
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New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.
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SCIENTIFIC PREPARATION OF LACTIC FERMENTS.
Indicated in Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc.
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Antiseptic for local Gynæcological use.
Price 4/- per box (powder)
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Special Terms to Wholesalers and large Consumers.

LIQUID BARKOLA COMPOUND
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Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—
Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.
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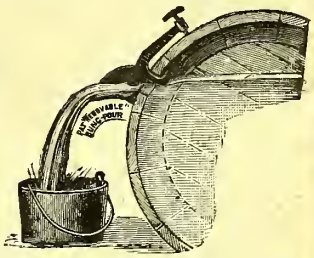
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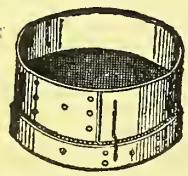
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2/6 per doz. allowed for Empty Bottles returned Carriage Paid, to our Factories

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Supplants Apenta, Hunyadi-Janos and German and Austrian Waters of similar Character

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5 doz. 1/3 @ 11/-	2 15 0	3 15 0
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108 galls.	54 galls.	27 galls.

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Osmos The Great British Aperient Water

Osmos, Crown Wharf, Hayes, Middlesex.

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WE beg to inform the Trade that we are now regularly receiving consignments of Natural Mineral Waters from the Continent and other parts of the World.

We are thus in a position to execute orders for the leading well-known Natural Mineral Waters, as under :—

VICHY-CÉLESTINS AND THE OTHER STATE SPRINGS

AESCULAP	INSALUS	POLAND
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Any Natural Mineral Water not in stock, if procurable, can be imported to special order during the Season.

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*LOSALL'S SALT (well advertised), tins	10d.	7/-
* " " " " "	1/7	13/6
* " " " " bottles in cartons	2/-	18/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box at 9d. each tablet.	2/3	21/-

PURE ORANGE WINE
A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only)
London Agent: JAMES STIRTON, 43 GREAT TOWER STREET, E.C.3.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—
PRESTON'S LIVERPOOL DISTILLERY Co., Ld.
The Largest Makers in the Kingdom,
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

THOMAS KEANE, *Sample Case Makers,*
Proprietors—THOMAS KEANE & SON, Ltd.
64, 66 & 68 WORCESTER STREET, BIRMINGHAM.

Sole Manufacturers of the
CHEMISTS'
EXCHANGE CASE,
Complete with 8 trays (with 7 or 18 Divisions to each tray). Size 14×9×6.

Manufacturers of
CASH BAGS.
LETTER BAGS.
ATTACHE CASES.
KIT BAGS, ETC.

WRITE FOR ILLUSTRATED PRICE LIST.
Factory — EXCHANGE WORKS, OLD MEETING STREET, BIRMINGHAM.

Every Day of the Year 50% Profit



	JANUARY.					FEBRUARY.					MARCH.					APRIL.					MAY.					JUNE.				
Sun.	...	4	11	18	25	1	8	15	22	29	...	7	14	21	28	...	4	11	18	25	2	9	16	23	30	...	6	13	20	27
Mon.	...	5	12	19	26	2	9	16	23	...	1	8	15	22	29	...	5	12	19	26	3	10	17	24	31	...	7	14	21	28
Tue.	...	6	13	20	27	3	10	17	24	...	2	9	16	23	30	...	6	13	20	27	4	11	18	25	...	1	8	15	22	29
Wed.	...	7	14	21	28	4	11	18	25	...	3	10	17	24	31	...	7	14	21	28	5	12	19	26	...	2	9	16	23	30
Thu.	1	8	15	22	29	5	12	19	26	...	4	11	18	25	...	1	8	15	22	29	6	13	20	27	...	3	10	17	24	...
Fri.	2	9	16	23	30	6	13	20	27	...	5	12	19	26	...	2	9	16	23	30	7	14	21	28	...	4	11	18	25	...
Sat.	3	10	17	24	31	7	14	21	28	...	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29	...	5	12	19	26	...

	JULY.					AUGUST.					SEPTEMBER.					OCTOBER.					NOVEMBER.					DECEMBER				
Sun.	...	4	11	18	25	1	8	15	22	29	...	5	12	19	26	...	3	10	17	24	31	...	7	14	21	28	...	5	12	19	26
Mon.	...	5	12	19	26	2	9	16	23	30	...	6	13	20	27	...	4	11	18	25	...	1	8	15	22	29	...	6	13	20	27
Tue.	...	6	13	20	27	3	10	17	24	31	...	7	14	21	28	...	5	12	19	26	...	2	9	16	23	30	...	7	14	21	28
Wed.	...	7	14	21	28	4	11	18	25	...	1	8	15	22	29	...	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29
Thu.	1	8	15	22	29	5	12	19	26	...	2	9	16	23	30	...	7	14	21	28	...	4	11	18	25	...	2	9	16	23	30
Fri.	2	9	16	23	30	6	13	20	27	...	3	10	17	24	...	1	8	15	22	29	...	5	12	19	26	...	3	10	17	24	31
Sat.	3	10	17	24	31	7	14	21	28	...	4	11	18	25	...	2	9	16	23	30	...	6	13	20	27	...	4	11	18	25	...

AT the advent of a New Year we stand at one of Life's Cross Roads, where we may look backward at the Past and forward to the Future.

THE Chemist in his twin capacity of a Business Man, must needs review the Profit and Loss account of the past year, but an important consideration is as to ways and means of coping with the vastly increased cost of carrying on.

IN this connection thoughtful deliberation will demonstrate the advisability of pushing the sale of those lines that pay a percentage of profit commensurate with present-day needs, as SANAGEN does.

AND it pays a "compound percentage" to push the sale of SANAGEN, for purchasers continue to purchase it because of its valuable enrichment of the daily dietary with those finer food elements that build up the Nerves and Brain.

4 SIZES.—2 oz. 2/-; 4 oz. 3/-; 8 oz. 5/-; 16 oz. 9/6.

RETAIL DISCOUNT 33⅓ % (SHOWING 50 % PROFIT ON OUTLAY).

AT ALL WHOLESALERS.

THE SANAGEN CO. LTD.

Sheepcote Lane
Battersea
London
S.W.
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TELEPHONE:
VICTORIA
2031

"John Bull"

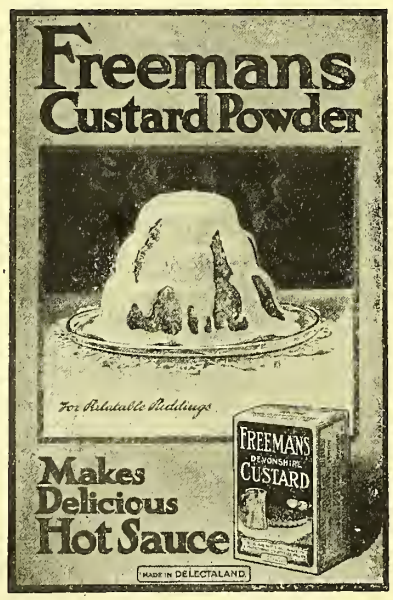


MALT EXTRACT

IS THE BEST!!!

Wholesale & Export Only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.





"J. GREEN"

British Made

Filter Papers

CORRESPONDING TO THE GERMAN

Nos. 595, 597, 598, 602, 604, etc.

ALSO

Ashless Filters

to replace German and Swedish makes.

589[1.]—589[2.] 589[3.]—207.

No. O—No. I F.

SOXHLET THIMBLES.

FOLDED FILTER CIRCLES, etc.

For Samples and Prices apply to any of the leading Laboratory Furnishers.

Makers—

J. BARCHAM GREEN & SON,

Hayle Mill, Maidstone, England.



LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

TRADE MARK

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

WHOLESALE PRICES.

No. 1.	1½ oz. Tin ...	9/-	per doz.
,, 2.	3½ ,, ,, ...	14/6	,,
,, 3.	6½ ,, ,, ...	24/-	,,
,, 4.	12 ,, ,, ...	42/-	,,

MIST. PEPSINÆ CO. c. BISMUTHO

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

British Medical Journal.



Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35–42 Charlotte St., London, E.C. 2.

THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK



ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

GOOD! IT'S MASON'S

The Drink for the Masses



Millions of glasses used daily by workers all over the Empire

Please allow us to Sample and Quote—

Citrate Magnesia
Health Salt
Salines
Liver Salt
Blood Salt
Sulph. & Sarsap. Salt
Lemonade Crystals, &c.

NEWBALL & MASON

NOTTINGHAM

MALTED FOOD FOR INFANTS

supplied in bulk, or packed with Chemist's own name.

For Terms apply—

WHYSALL'S FOOD CO. Ltd., Grantham.

CHELTINE MILK & MALTED FOODS

No. 1, from birth to five months.
No. 2, from five months onwards.
No. 3 for Invalids, Dyspeptics, the aged, and those with enfeebled digestion.

Experience is proving, and medical men are testifying to the value of these perfect Foods. Terms and full particulars from

THE CHELTINE FOODS CO., CHELTENHAM.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.



MALT & COD LIVER OIL

Prepared only from the finest East-Coast Barley, Combined with the best Norwegian Non-Freezing Cod Liver Oil.

Packed in Screw-Capped Jars, Bottles and Tins, holding 1 lb. and 2 lbs. Neatly Labelled and Wrapped. Customer's Name printed on Labels for Orders of 1 gross and upwards.

TELEPHONES: Nitshill—Pollokshaws 14 London—Avenue 5661 (3 lines).

PERRY & HOPE, Ltd.

TELEGRAMS: "Perryope, Nitshill." "Perryope, Lod. London."

NITSHILL, near GLASGOW.

London Office: 1 LEADENHALL STREET, E.C.3.

Medicinal non-freezing

COD LIVER OIL

FROM STOCK.

K. MALMBERG,

110 Cannon Street, LONDON, E.C. 4.

AND AT NEW YORK

Telegraphic Address: "Obtempero, Cannon, London." Telephone No.: City 6321.

Extract of Malt

and

Cod Liver Oil

IN BULK, JARS OR TINS.

Prices on application.

THE

BRITISH DIAMALT CO.

BISHOP'S STORTFORD.

Proprietors { H. A. & D. D. TAYLOR
H. D. & C. T. TAYLOR

VITMAR

THE NEW FOOD FOR GROWING CHILDREN

is now in great demand

Chemists can obtain it from their Wholesalers

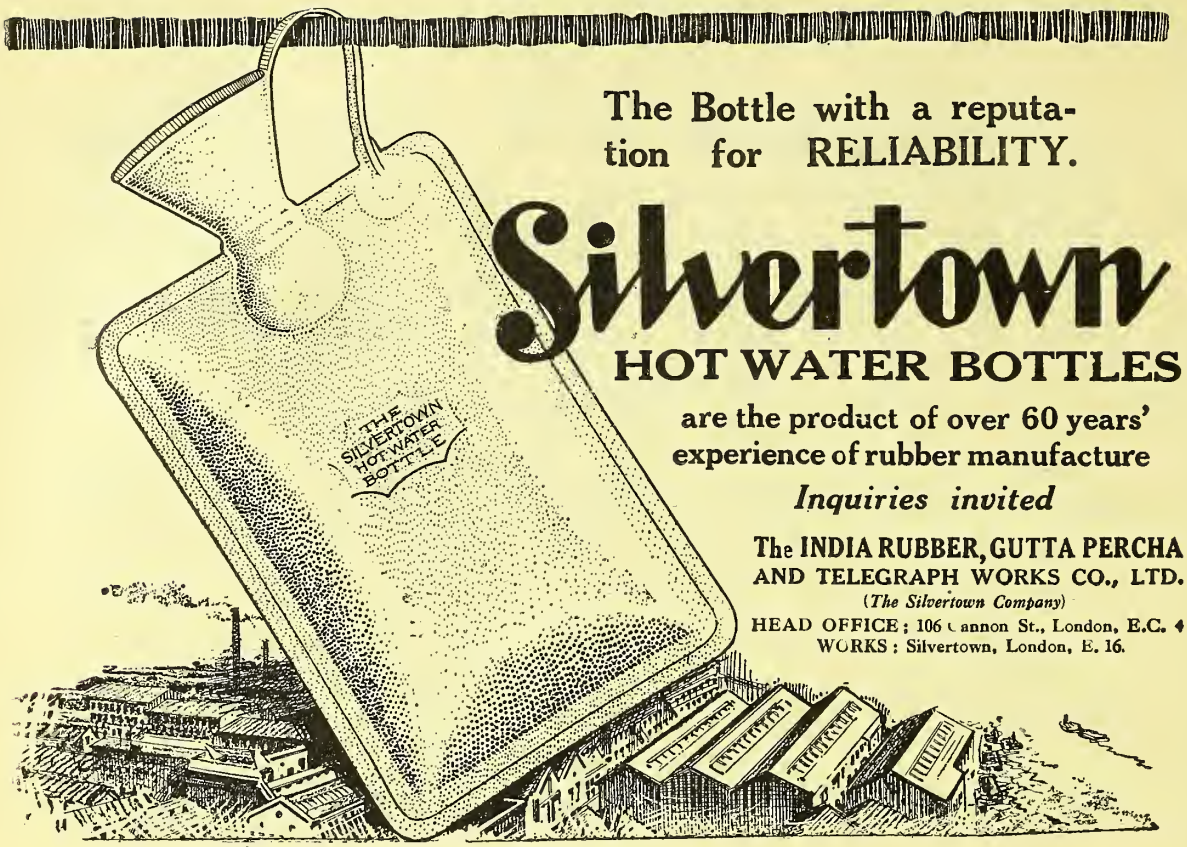
RETAIL PRICE - **2/3** per jar
WHOLESALE PRICE **21/7** per doz.



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CALLARD & CO.

CALLARD, STEWART & WATT, LIMITED,
Food Specialists,
74 REGENT STREET, LONDON, W. 1.



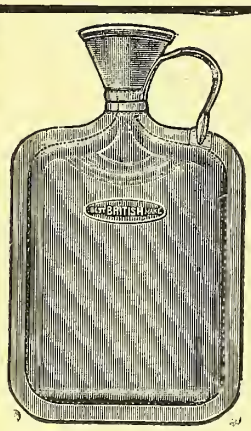
The Bottle with a reputation for RELIABILITY.

Silvertown
HOT WATER BOTTLES

are the product of over 60 years' experience of rubber manufacture

Inquiries invited

The INDIA RUBBER, GUTTA PERCHA AND TELEGRAPH WORKS CO., LTD.
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HEAD OFFICE: 106 Cannon St., London, E.C. 4
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BEST
BRITISH MAKE.

6×10	7×10	8×10	8×12	10×12
White				
3/11	4/2	4/6	5/-	6/-
Red				
4/1	4/6	4/9	5/4	6/4

(*Special Discount for Quantities.*)

RUBBER GOODS
(FOR ALL KINDS OF SURGICAL)

TRY—

JAMES TOMPKINS, Ltd.
THE RUBBER HOUSE,
386 City Road, London, E.C. 1.

ALL BRITISH. Established 1877.
Phone: City 7640.

Douches — Enemas — Hot Water Bottles — Pessaries — Syringes—Urinals (Rubber), Whirling Sprays, &c. &c.

RUBBER CORKS
IMPORTANT

It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade, and manufacture all standard sizes.

	Drab Ammonia Proof.	Drab Acid Proof.
Prices for 8-oz. Bottles ...	**3/3**	**4/3** per gross
„ 16-oz. „ ...	**4/9**	**5/9** „

Other sizes—Prices on Application.

SPECIAL PRICES FOR LARGE QUANTITIES.

We also manufacture BUNGS for ½-gall. and 1-gall. Jars.

RED & BLACK RUBBER CORKS of the Best Quality for Laboratory use.

Inquiries Solicited.

Garden City Rubber Company

Manufacturers of all Rubber Specialities for Medical, Chemical & Laboratory use,

Letchworth, Herts.

Telephone: Letchworth 54. Telegrams: "Rubber Letchworth."

Every "Ronoleke" REGD. You Sell



makes a Customer for your other Lines

The fact that the "Ronoleke" Bottle CANNOT leak makes satisfied customers who will have confidence in coming to you for all their other needs. Make sure of your supply of "Ronoleke" Guaranteed Unleakable Hot Water Bottles by ordering through your Wholesale House right away NOW.

They will supply you also with attractive advertising material, and the "Ronoleke" itself will advertise you in every purchaser's home.

Revised Prices.

Protected on the P.A.T.A. List.

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
6″ × 8″	5/3	6/10
6″ × 10″	5/10	7/6
7″ × 10″	6/–	7/9
6″ × 12″	6/2	8/–
7″ × 11″	6/3	8/1
8″ × 10″	6/7	8/6
7″ × 12″	6/9	8/9
6″ × 14″	6/9	8/9

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
8″ × 12″	7/4	9/5
9″ × 12″	7/9	10/–
8″ × 14″	8/–	10/3
10″ × 12″	8/3	10/7
10″ × 14″	9/3	11/11
10″ × 16″	10/1	13/–
12″ × 14″	10/4	13/3
12″ × 16″	11/–	14/2

Your Wholesale House will supply you

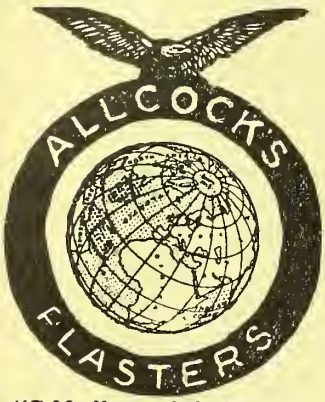
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Allcock's PLASTERS

A REMEDY OF 70 YEARS' STANDING.

Allcock's Plasters
Allcock's Corn and Bunion Plasters
Brandreth's Pills

The Three Reliables.



Prices and Terms on application to

ALLCOCK MANUFACTURING COMPANY
22, Hamilton Sq., Birkenhead, England.

"Sold all round the World."

Mustard?

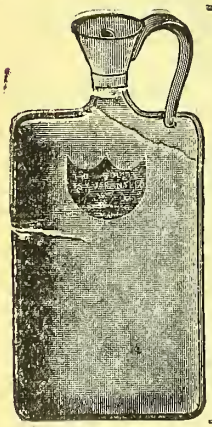
—Yes! RIGOLLOT'S
Mustard Leaves

for Plasters.
The original and only genuine.

Of all Chemists and Stores in

7d. & 1/- packets & 1/7 tins.

67 Southwark Bridge, LONDON, S.E.



VINCENT WOOD'S

(GOLD MEDAL, GUARANTEED)

Hot Water Bottles

6/6 lb. 12 × 8 weighs under 13 oz.

Covers for same, assorted sizes, 21/- doz.

BELTS TRUSSES
SUSPENSORIES
& Surgical Appliances
AT LOWEST CURRENT RATES

91 & 93 Newington Causeway, London, S.E. 1.

KUTSEAL

THE LIQUID COURT PLASTER

ALL-BRITISH

Minimum Retail Price **1/3**

Wholesale Price **11/6** PER DOZ.

CARRIAGE PAID on ORDERS of 30/- upwards.
2½% DISCOUNT for CASH in 7 DAYS.

Sole Makers—
THE KUTSEAL CO., BLACKPOOL

GOOD SELLING LINES, GOOD PROFITS,
AND ABSOLUTE SAFETY IN STOCKING
"HOBSON'S CHOICE"

FEET PLAISTERS AND POWDERS

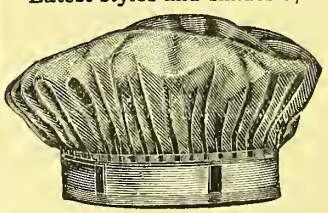
STOCK IS RETURNABLE AT ANY TIME, FOR ANY REASON, AND FULL PRICE REPAID.

For Prices and Samples apply to

HOBSON, TRIMBLE & CO., LTD.
Union St., and Market, LEEDS,
or your own WHOLESALE HOUSE.

RUBBER BATHING CAPS

Latest styles and shades 9/- doz. and upwards.



WHOLESALE & EXPORT

To facilitate output a special discount will be allowed on all orders received before 1st Feb. 1920.

Hot water bottles, air cushions, beds, enemas, etc.

ALLIED RUBBER & LEATHER Co.,
19 Cannon St., Manchester.

THE

CYNTA MANUFACTURING

COMPANY

St. THOMAS' PLACE, STOCKPORT

And 151-7 GOSWELL ROAD, LONDON, E.C. 1.

PROPRIETORS and MANUFACTURERS of

"CYNTA" Regd.

HYGIENIC TOWELINES AND OTHER SANITARY SPECIALITIES FOR LADIES AND INFANTS

NEW ATTRACTIVE SHOWCARDS AND COMPLETE PRICE LIST NOW READY.

ALL "CYNTA" SPECIALITIES show a good margin of profit, and being of first-class quality should find a ready sale in good-class trade.

Arrangements for a greatly increased output have now been made, and dispatch can be effected promptly.

A sample collection of the most popular lines will be sent on application. This may be examined at your leisure and the whole or any part returned at your convenience.

OYLERS' TRANSPARENT RUBBER TEATS

EXCELLENT IN EVERY WAY.

SEAMLESS, great clearness and transparency, all impurities plainly visible. Easily cleaned.

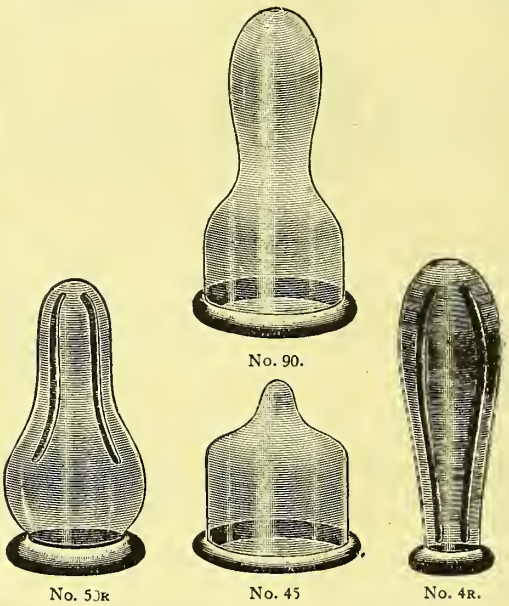
Stand all tests, including boiling, very supple and durable, grip well at the neck. Superior manufacture.

SPECIAL DESIGNS FOR SPECIAL HOME AND OVERSEAS MARKETS.

Place a trial order through your Wholesale House.

OYLERS' Ltd

35 New Cavendish St., Harley St., London, W. 1
Wires: "Oylerism, Wesdo, London."
Phone: Mayfair 681.



Cotton Wool.

Absorbent for surgical purposes and plain for packing and decorative use. Four qualities in each variety.

Your inquiry will bring quotation with samples per return post.

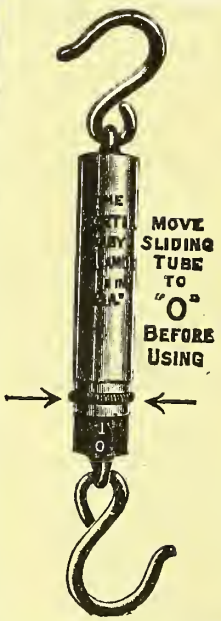
We manufacture for
Wholesale and Export trade only.

Platts Mill Co., Ltd.,
Platt Bridge, Nr. Wigan,
ENGLAND.

Telegraphic Address: "Cotton Platt Bridge." Telephone 658 Wigan.
Codes: Western Union; ABC, 4th & 5th Editions.

Contractors to H.M. Government.

Just Arrived.



A Limited Consignment of
THE
"PORTIA"
(Regd.)
NET WEIGHT
Baby Balance
Weighs up to 15 lb.

Price	Retail
30/-	3/6
dozen.	each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.
184 to 190 Goswell Rd., London, E.C.1.
Obtainable through all Wholesale Houses.

SATISFY YOUR CUSTOMERS

The "Fastnet" BANDAGES

In Sealed Cylinders.

Used by Discriminating Medical Men.



The following are a few of the many advantages of the "Fastnet" Bandages over any other Water-dressing Bandages on the market :—

(1) The cloth from which they are made is of even manufacture, very absorbent and heavy texture.

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(3) They are cleanly cut and evenly packed.

(4) They are each packed in a sealed cylinder, ensuring cleanliness in use and in storage, and require no further wrapping before sale.

Samples and prices can be had on application to Sole Agents :—

JOHN TIMPSON & CO., Ltd., 104/6 Golden Lane, London, E.C.1

"NORVIC" CRÉPE BANDAGE
(REGD)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

Extremely Elastic, but contains no Rubber.

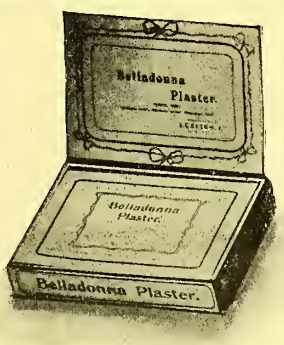
Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

"Simply invaluable."



The NORWICH CRAPE CO. (1856) Ltd. (ST. AUGUSTINE'S SILK MILLS), **Norwich, Eng.**

Provincial Selling Agents, **Freese & Moon, Ltd.**, 59 Bermondsey Street London, S.E. 1.
London Buyerscan obtain samples & prices from **Mr. T. Eastaway,** London Representative, 7 Wool Exchange, E.C.2



Belladonna Plasters. Breast Plasters.

Attractively wrapped, best quality, readily saleable.

Breast Plasters are shaped and have small unperforated margin.

ZOPLA (Zinc Oxide Plaster) in small attractive tins in three colours.

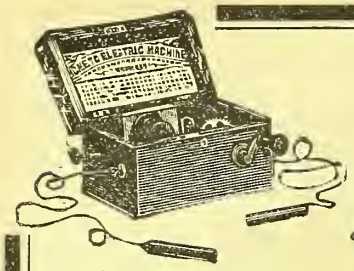
Also on spools and in rolls. ***The most popular Strapping.***

Strengthening, Corn and Bunion, Mustard, Rubber Adhesive, Holland Strapping, Plumbi Base, and all other Plasters.

HELVIA CRÊPE BANDAGES.

Write for complete List. WHOLESALE ONLY.

LESLIES, LTD., 62 London Wall, London, E.C. 2.



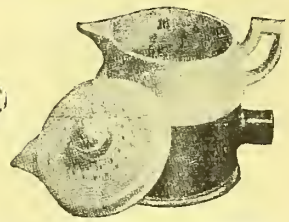
Magneto Machines.

Size 10 × 5½ × 4½ in.

Very powerful Machine in Polished Hardwood Case complete with Regulator, Cords and Handles. Gives a mild or powerful shock according to the speed the handle is turned.

Price **22/6 net.**

Electric Food Warmer.



Capacity ½-pint. Graduated scale showing tablespoonful and liquid ounce marked inside. An ideal food warmer for the Bedroom, Nursery, or Sick Room

Price 10/3 net

or complete with Connecting Cord and Lampholder Adapter **12/6 net**

Electric Copper Kettle.



Capacity 2 pints. Will boil 2 pints of water in about 10 minutes at very small cost from your lighting circuit

Price 30/- net

or complete with Connecting Cord and Adapter **Price 32/- net.**

"Delia" Medical Coil.

British made.



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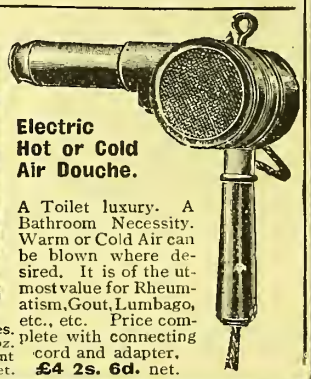
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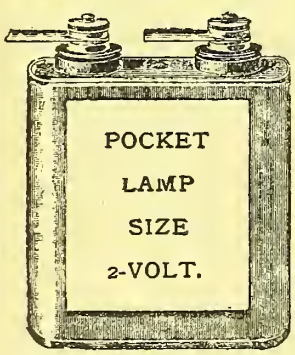


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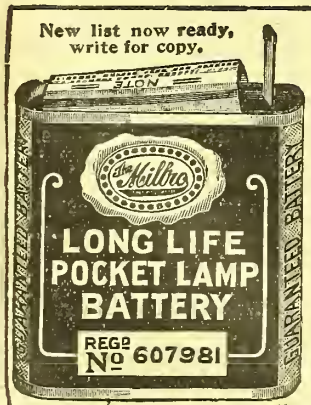
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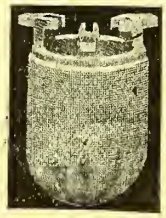
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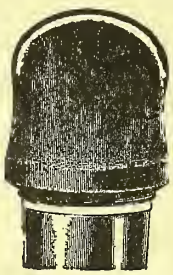
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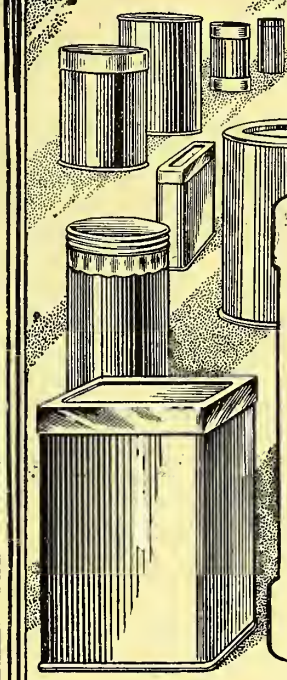
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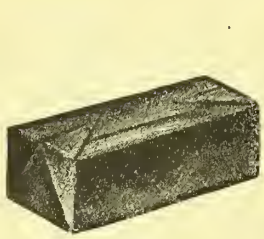
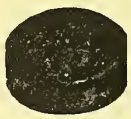
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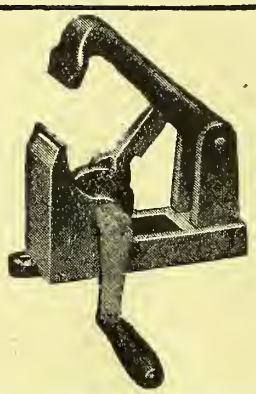
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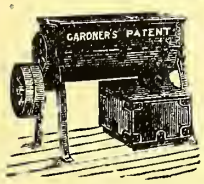
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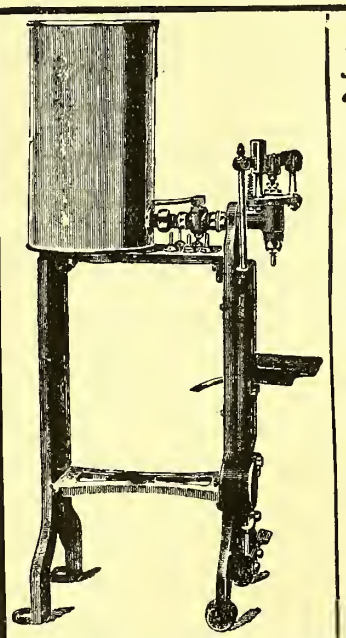


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MINIMUM ORDER AT WHOLESALE RATES:—One Gross of 6d. size amounting to 40/- or assorted order to same value. 1/- size 70/- per gross. Carriage paid on Parcels of £5 and upwards. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference.

Manufactory: 75 SOUTHGATE ROAD, LONDON, N. 1.

SPIRIT STOCK BOOK.

To keep records of receipt and use, as required in the Order, to obtain repayment of Duty.

Post Free,

3/-

JAMES TOWNSEND & SONS,

EXETER and LONDON.

The following POST FREE on receipt of P.O.

CANADIAN ARMY CLEARANCE.

Ash's Goods

AT GREAT REDUCTIONS.

Crown Slitting Forceps - - - - - -	12/6
Adjustable (All-Metal) Root Elevators	7/6
"Velvet" Rubber Dam, 5-in. - yd.	5/-
" " " " - 5 yds.	21/-
Buxton Ratchet Gags - - - - - - -	18/6
Flask Holders - - - - - - - - -	3/9

THE CITY DENTAL DEPOT

103 Newgate Street, London, E.C. 1

(Near G.P.O.)

Telephone: City 9241. Telegrams: "Sinedolo, Cent, London."

Send for TRADE PRICE LIST of MECHANICAL DENTISTRY.

GELATINES

FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
112 ×1 lb. Packets to Case.)

MADE IN ENGLAND.

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

Samples on application from

OURY, MILLAR & CO.,

Telegrams: "OLMENTH, LONDON."

9 Mincing Lane, LONDON, E.C.

Telephone: 4978 AVENUE.

PHOSFERINE.

TRADE NOTICE.

JULY 31st, 1918.

At the request of a large number of Chemists throughout the Country we have decided, from the above date, to fix the retail prices of PHOSFERINE, and all our other Proprietary Medicines, at face value, viz.:

1/3, 3/-, 5/- and 12/-

The Wholesale Prices will be as follows:

1/3	**size**	- -	**12/-**	**per doz., net.**	
3/-	**„**	- -	**30/-**	**„**	**„**
5/-	**„**	- -	**48/6**	**„**	**„**
12/-	**„**	- -	**114/-**	**„**	**„**

Against the conditional £5 worth of Phosferine being taken, a bonus of 10/6 will be allowed for a Phosferine Window Display of not less than 14 days.

ASHTON & PARSONS, Ld., La Belle Sauvage, Ludgate Hill,
LONDON, E.C. 4.

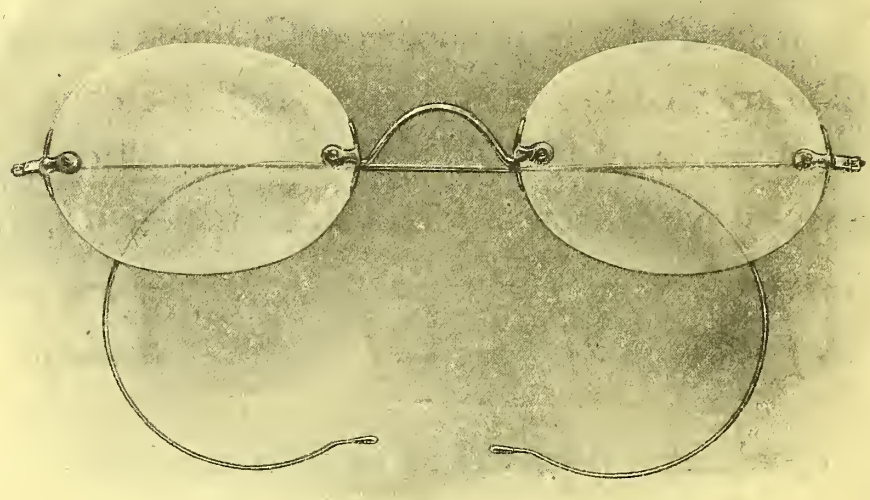
NON AURI SED OCULO

Telephones:
Private Branch Exchange,
Holborn 1388 (3 lines).

Cables: "Astigmatic London."

Telegrams:
"Astigmatic,
Smith, London."

HOME and EXPORT.



SPECTACLES & EYEGLASSES

In Solid Gold, Gold-Filled, "Platinel," and Steel.

Lenses	Field and	Measuring Rules and
Cases	Marine Glasses	Ophthalmological
Eyeglass Chains	Prismatic Binoculars	Instruments
Reading Glasses	Telescopes	of all kinds

PARTICULARS AND PRICES ON APPLICATION

Raphael's Ltd

Spectacle, Eyeglass, Scientific Instrument and Lens Manufacturers. Wholesale and Export.

HATTON GARDEN, LONDON, E.C. 1. Also at Paris, Sydney and Hong Kong.

(120)

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

JANUARY 3, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No.: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—G.W. MAIN LINE (few miles out).—General Retail Business, with N.H.I. Dispensing; returns last year £1,650; *net profit* 28%; double-fronted shop; corner position; convenient house; held on lease at a moderate rental; terms, valuation of stock and fixtures.

2.—SOUTH KENSNIGTON.—Good-class Business, chiefly Dispensing at full prices; well-appointed Pharmacy; position unique; *net profit* £1,000; price to be agreed equitably.

3.—LONDON, S.W.—Family Retail and Dispensing Business; present hands 11 years; gross receipts average between £900 and £1,000; *net profit* £350; stock and fixtures estimated at £750; price £850, or valuation and sum for goodwill to be agreed.

4.—HIGHBURY (near).—Ready-money Business, situate in busy main road; returns between £1,000 and £1,100; *gross profit* 50%; house has 8 rooms; rent £50; price £800.

5.—LONDON, N.W.—Ready-money Business; returns, present rate, £30 per week; *gross profit about one-third*; rent £50; no near opposition; price to be arranged.

6.—HOLLOWAY (near).—Ready-money Business; returns between £2,500 and £3,000 per annum; *gross profit* 50%; small working expenses; rent £60; on lease, or freehold may be purchased; terms, valuation and sum for goodwill to be agreed.

7.—HOME COUNTY (charming locality).—Good-class Retail and Dispensing Business; returns this year approach £4,000, at good prices; double-fronted shop; convenient house; large garden; price £2,000.

8.—INLAND HEALTH RESORT.—High-class Dispensing and Retail Business; returns between £4,000 and £4,500 per annum; *gross profit* 45%; well-fitted shop; further particulars will be furnished on receipt of a banker's reference.

9.—ISLE OF WIGHT.—Unopposed Business; returns at the rate of £1,600 per annum; *net profit* 25%; small house; price, to include freehold premises, £900.

10.—SOUTH WALES.—General Retail and Dispensing Business; scope for Optics and Dentistry; returns £1,500, increasing; *net profit* 30%; rent £32 10*s.*; price £950.

11.—HAMPSHIRE.—Ready-money Business, situate in main thoroughfare of an important business town; returns, present rate, about £3,000, at fair prices; price £2,000; vendor estimates value of stock and fixtures at £1,900.

12.—MIDLANDS.—Old-established Business, Retail and Wholesale in Packed Goods; gross receipts exceed £8,000, and during the past 3 years *the gross profit has averaged* £2,031 *per annum*; the premises are held on long lease, at a rental of £60; price about £3 000; a banker's reference will facilitate business.

13.—MIDLANDS.—Ready-money Retail Business; established many years; returns approach £2,500; full investigation invited; lease will be granted at moderate rental; vendor will consider a reasonable offer.

14.—SOUTH OF ENGLAND.—Well-established Retail and Dispensing Business, capitally situate in main thoroughfare; returns at the rate of £5,000 per annum; further details on application.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co., desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of Confusion and loss.

Messrs. O. & Co., are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BUSINESSES FOR DISPOSAL.

LONDON Suburb.—Genuine middle-class Business, established 22 years, in same hands; returns last year over £2,000, under management; very heavily stocked; double-fronted shop; price £1,300 or valuation. Address 274/9, Office of this Paper.

SOUTH WALES.—Medium-class Dispensing, Photographic, and Prescribing Business in good-class, healthy colliery district; returns between £1,600 and £1,700; gross profits about 40 per cent.; price asked valuation of stock and fixtures, goodwill, or will entertain lump-sum offer. "Oxo" (262/3), Office of this Paper.

SUSSEX.—Owner retiring; excellent chance to acquire a Light Retail and Dispensing Business on easy terms; modern premises; good window; private entrance; part let off now pays practically whole rent; part cash, rest by easy instalments. Apply 270/19, Office of this Paper.

CHEMIST'S D.F. Shop, five rooms, bathroom, and scullery; in good-class neighbourhood; well-fitted shop; established about 15 years; closed owing to death of proprietor; price £150. Apply Langston, 103 Manor Lane, Lee, S.E. 12. 'Phone 936 Lee Green.

PARTNERSHIPS.

SLEEPING Partnership; £600; good-class Pharmacy; well stocked; turnover about £2,000 yearly; £2 per week on money; every investigation invited. Apply "Aspirin" (261/21), Office of this Paper.

AGENCIES.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepa'd.

ADVERTISER, with wide, up-to-date experience calling upon Chemists, etc., in Midland Counties, wants one or two additional good Agencies; commission basis only. Reply fully, stating terms, to 273/13, Office of this Paper.

AGENTS, with good connections among Chemists only, required for good-class, attractive Medical lines. Apply, with full particulars, 272/14, Office of this Paper.

REQUIRED, Agent on commission basis for Midland Counties; state firms already represented. Whitaker & Co., Colour Works, Kendal.

TRAVELLER calling upon Chemists, high-class Hairdressers, Photographic Chemists, and Photographers, with good-class Retail Chemists' experience, one who understands all requirements of the Retail, good Salesman, of good education and address, highest reference, desires additional good Agency; commission and part expenses; South Wales district. "Advertiser," 1 Lisvane Street, Cardiff.

TO LET.

TO be Let with early possession, Shop Premises, suitable for any high-class trade, with a frontage of approximately 20 feet and a depth of 105 feet, in the centre of the area of the rapidly developing Port of Hull; an exceptional opportunity. For particulars apply E. S. Wilson & Sons, Solicitors, 6 Whitefriargate, Hull.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone· 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SUSSEX COAST.—Well-established Retail and Dispensing Business, returning £2,000; no Panel or Photo; good position; well fitted and heavily stocked; sole cause of sale, leaving the Retail; price £1,200.

2.—WEST MIDDLESEX (15 miles out).—Sound middle-class Cash Retail; selling solely through family reasons; returns £1,650, increasing; very convenient house; low rent; corner, double-fronted shop, fully stocked; price £1,050, or bare valuation of stock and fixtures; worth attention.

3.—LONDON, W.C.—Good-class Retail and Dispensing Business; returns average over £2,000; *clear net profit*, £700; well-fitted Pharmacy, with residence attached; long lease; price £1,550.

4.—LONDON, S.W.—Good middle-class Cash Retail, entirely under manager; returns £1,500, *net profit* £500; main-road position; well stocked; rent covered by let-off; price £1,000.

INTENDING VENDORS

We are in immediate want of sound businesses in all parts of England, especially London, South Coast, S.W. and Western Counties, Midlands and Home Counties, at prices ranging from £300 to £3,000.

CITY OF LIVERPOOL.

SHAVING BRUSHES INFECTED WITH ANTHRAX.

THE attention of Retailers of Shaving Brushes and of the public is called to the fact that a large consignment of white bone-handled imitation badger shaving brushes has been found to be dangerously contaminated with Anthrax.

The trade pattern numbers of these shaving brushes are, respectively, 1786, 2592, and 5238.

Retailers having any brushes of these numbers in their possession are requested to communicate at once with the Medical Officer of Health, Public Health Department, Municipal Buildings, Liverpool.

E. R. PICKMERE,
Town Clerk.

Town Clerk's Office,
29th December, 1919.

PRIZE COURT SALE.

PRIZE COURT SALE.

IN PRIZE.

By Order and for Account of the Marshal of the Admiralty and Prize Court.

TO be Sold by Public Tender, 40 Cases, each containing 10 10-lb. tins Amorphous Phosphorus, now lying in London, ex "John G. McCullough."

Tenders in envelopes marked "Tender for Amorphous Phosphorus," and addressed to the Admiralty Marshal, Royal Courts of Justice, London, W.C. 2, must be received not later than Noon, on MONDAY, 12th January, 1920.

Further particulars may be had on application to the Brokers, D. W. Greenhough & Son, 21 Mincing Lane, London, E.C. 3.

APPRENTICESHIPS.

APPRENTICE.—A well-educated youth required (at once) in a good-class Family business; must have passed the Preliminary or its equivalent; time off allowed for attending lectures and study; sleep out. Apply to David Anderson, Chemist, Crouch End, N. 8.

BRETT & CO.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

We have cash Buyers for all sizes and classes of business.

BUSINESSES WANTED.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

DEVON or Somerset.—Good middle-class Business, doing a fair turnover; good living accommodation; or lock-up Shop; capital available. Particulars, in confidence, to "Western" (272/35), Office of this Paper.

EDINBURGH.—Advertiser would be glad to hear of highest class Business for Sale; best position, West-End or adjacent; would buy outright or consider partnership. Apply 134/59, Office of this Paper.

LONDON.—A brisk Cash Business wanted, early in the New Year; cash available. Please state turnover, rent, lease, reason for disposal, price, etc., in confidence, to "Richmond" (P. O. B. 22/90), Office of this Paper.

LONDON Suburbs or Southern Counties.—Good-class Business, with living accommodation, doing about £2,000; capital available. Please state usual particulars to "Pharmacist" (273/36), Office of this Paper.

MIDLANDS, North England, or South Scotland; in busy industrial centre preferred; good going Pharmacy; Photographics and Optics not objected to or Drug Store capable of expansion under qualified management; house accommodation an advantage. State turnover, rent, lease, reason for disposal, probable price, etc., in strictest confidence, to "Clan" (271/10), Office of this Paper.

ADVERTISER requires Retail Business; Lancashire or Yorkshire; turnover not less than £1,500; please state price, rent, rates, lease, reason for disposal, etc. "L. or Y." (271/70), Office of this Paper.

BUSINESS wanted in Liverpool or Southport, not showing less than £600 net profit; please state returns, price wanted, particulars of lease, opposition, reasons for disposal, etc.; cash available for immediate settlement. Replies, in strict confidence, to "Rex," c/o 20 Richmond Street, Liverpool.

CASH Retail Business wanted; Midlands or South; must show a good living profit. Give full particulars in confidence, "A.," 7 Guildhall Street, Lincoln.

GOOD Retail Cash Business, or Partnership with view to succession; North or North Midlands preferred; capital available £1,000 to £3,000. Please give particulars, in strict confidence, to 273/7, Office of this Paper.

PHARMACIST requires good Business in seaside town; living accommodation essential; returns about £1,500. Full particulars to "Pharmacist," 111 Down's Road, Clapton, N.E.

REQUIRED (immediately), Chemist's Business; London or suburbs; cash available about £500; send full particulars. Apply 273/11, Office of this Paper.

WANTED, London or near, small quick cash Business, neglected not objected to if in busy part; would manage for short time if necessary; lock-up or upper part let or available for letting. Apply P. C. B. 21/3, Office of this Paper.

WANTED to buy, Drug Store in working-class district, London or near, with living accommodation; neglected business not objected to; replies will be treated in strictest confidence, or would manage for a time with view to early succession; unqualified; capital available; recently demobilised. "B. J.," c/o Mrs. Soott, 23 Raleigh Road, Enfield, Middlesex.

WANTED, a small, unopposed village Business; neglected one not objected to; Southern or Home Counties preferred. Particulars to C. E. Davies, Brunswick House, Westbourne, Emsworth.

LEGAL.

Re MATTHEW JAMES TODD, Deceased.

ALL persons having claims or demands against the Estate of the late Matthew James Todd, Pharmacist, who carried on business at Shiremoor, in the County of Northumberland, and resided at 8 Princes Gardens, Monkseaton, and who died on the First day of May, 1919, are requested to send full particulars thereof to me the undersigned forthwith, and all persons owing money to the estate of the deceased are requested to remit the same to me as acting for the Executors of the deceased.

Dated the 29th day of December, 1919.

CHARLES E. LAYNE,
Solicitor for the Executors.

50 Grainger Street,
Newcastle-upon-Tyne.

Re SELLS & SON (TUNBRIDGE WELLS) LTD.,
CHEMISTS, GROSVENOR ROAD,
TUNBRIDGE WELLS.

NOTICE IS HEREBY GIVEN that the assets of this Company have been purchased by Messrs. A. E. Hobbs, Ltd., of Tunbridge Wells, as from the eighteenth day of November, One thousand nine hundred and nineteen. The Creditors of Messrs. Sells & Son (Tunbridge Wells) Ltd. are requested, if they have not already done so, to send in a statement of their claims up to the eighteenth day of November, One thousand nine hundred and nineteen, to Messrs. A. E. Quaife & Tuke, of 155 Fenchurch Street, E.C. 3, on or before the seventeenth day of January, One thousand nine hundred and twenty, no liabilities being taken over by Messrs. A. E. Hobbs, Ltd.

Dated this thirtieth day of December, One thousand nine hundred and nineteen.

A. E. QUAIFE & TUKE,
155 Fenchurch Street, E.C.

FOR SALE.

FOR Sale, solid mahogany Pedestal Desk, 14 drawers; solid oak Shop Front Gate, with letter-box and iron uprights complete; 5-gall. Jacketed Boiler, complete with gas fittings. Apply 274/2, Office of this Paper.

SHOP FITTINGS of Chemist's shop, complete; Mahogany and Mirrors, two Counters, three Carboys, five Showcases, Drawers, Shelves, labelled Jars and Bottles, etc. Apply 266/9, Office of this Paper.

SURPLUS Stock.—8 lb. Japanese Camphor, in ½-oz. blocks; 1 lb. Ol. Bacc. Juniperi Ext.; 2 lb. Strontii Bromid.; 1 lb. Calo. Hypophosph.; 1 lb. Ammon. Benzoas. Nat.; 20 gross Pil. Hyd. Subchlor. Co. B.P. 1898, pearl coated; Win. qt. Tinct. Chlorof. Co. B.P. 1885; 2 x 1-lb. bottles Wallis Styptic Colloid (unopened). Offers to R. Wright, Pharmacist, Buxton.

SITUATIONS OPEN.

RETAIL.

BARNES.—Assistant wanted for good-class Dispensing and Retail. Apply, giving usual particulars, to Feltwell & Son, 90 Church Road, Barnes, London, S.W. 13.

CHESHIRE.—Qualified Assistant required as Senior; outdoors; easy hours; please state age, height, experience, salary, and when disengaged in first letter, enclose photo if possible. Young, Chemist, Nantwich.

DERBYSHIRE.—Qualified Manager, married, required for good mixed Family Business; house attached, with immediate possession; permanency; good opening for good-class man. Apply, with usual particulars, to W. Young, Pharmaceutical Chemist, Chapel-en-le-Frith.

LIVERPOOL.—Good all-round, energetic Assistant required; outdoors; must be experienced, smart Salesman, able to Dispense; usual hours; alternate Sunday duty; state whether qualified or unqualified, salary expected, what experience, references, and if permanency desired. "H. L.," Lomax, Limited, Chemists, 43 Edge Lane, Liverpool.

LONDON, N.—Wanted, as an Apprentice, educated youth of 15 or 16 years; wages from the commencement. Apply Young & Harrison, 92 Green Lanes, Stoke Newington, London, N. 16.

LONDON, S.W.—Unqualified Assistant; good all-round man; easy hours. Full particulars and salary to A. E. Bird, Durbin's Drug Stores, Kingston-on-Thames.

LONDON, S.W.—Unqualified Assistant required immediately; must be a good Dispenser; state age, whether married, and salary required. Apply 271/1, Office of this Paper.

LONDON, S.W.—Junior Assistant for Light Retail and Dispensing business; please state age, experience, and salary required. P. B. P., 68 Foyle Road, Blackheath, S.E. 3.

LONDON, W. 1.—Smart Assistant, with first-class West-End experience, wanted for modern Pharmacy in Piccadilly; speaking French an advantage; hours moderate, and good salary. Apply A. Maitland & Co., 8 Torrington Place, W.C. 1.

LONDON, W.—Qualified Assistant required; West-End experience preferred; also qualified Branch Manager. James, c/o House & Co., 12 Wigmore Street, London, W.

LONDON, W.—Assistant, with good experience, wanted for Counter and Dispensing. Apply the Manager, Heppell & Co., 26 Piccadilly, W.

LONDON, W.—Qualified Assistant required (at once) for Dispensing; must be accurate and had experience in good-class business; moderate hours; outdoors. Apply, giving full particulars, to 273/39, Office of this Paper.

MANCHESTER.—Wanted, qualified Assistant; comfortable position; permanent if suitable; elderly not objected to. Particulars, age, salary, etc., to "C. D.," 166 Church Street, Bradford, Manchester.

REDHILL.—Immediately, an Assistant for the Dispensing department; lady or gentleman; must be quick and reliable Dispenser and with good credentials; 48-hour week. State age, salary (outdoors), and all particulars, Fowler & Co., Redhill.

SWANSEA.—Young lady Assistant; progressive berth; permanency; must be an experienced Dispenser; state salary required to commence with. Apply 271/111, Office of this Paper.

WOLVERHAMPTON.—Dispenser required in good-class store business in centre of the town; suit gentleman recently qualified; easy hours; no Sunday or night duty. Applicants, who must be qualified Chemists, should send full particulars of experience, stating age and salary required, to Martyn's Stores, Ltd., Wolverhampton.

AN experienced Chemist's Assistant, or a capable Junior, for a Mixed business in Glamorgan; outdoors; must be active and trustworthy. Apply, with references, to 273/10, Office of this Paper.

AT once, Middlesex, qualified lady Assistant wanted; used to busy trade; or part-time; state wages; permanency. Apply "Aspirin" (271/3), Office of this Paper.

CAPABLE Lady Assistant required, to take charge of Dispensary and assist at Counter; experienced; 50s. per week; live out. Apply by letter, enclosing photo (returnable), to Sadler, Chemist, Crawley, Sussex.

COMPETENT Junior (male) in good-class Dispensing and Retail. Apply W. Brown, 1 King's College Road, London, N.W. 3.

JUNIOR Assistant wanted for Counter. Clarke, Chemist, Newport.

JUNIOR required (January 26th). Must be smart, punctual, and tidy; good references; high-class Dispensing; light work; local man preferred, or one to live in neighbourhood. Apply Atkins, 30 Highbury Park, Islington.

JUNIOR Assistant required for Retail and Dispensing. Write, stating experience and salary expected (outdoors), International Stores, Drug Department, High Street, N. Finchley, N. 12.

LOCUM, reliable, wanted for a week beginning 14th January to take charge of middle-class business in S.E. London. State references, salary required in first letter, to 266/6, Office of this Paper.

QUALIFIED Manager required for South Devon seaside branch. State age, height, experience, references, and salary required (house rent, rates and taxes free), to Holman, Ham & Co., Ltd., Market Street, Exeter.

QUALIFIED Assistant or Manager, with all-round experience; Major qualification preferred. Apply Mr. William Shadforth, Pharmaceutical Chemist, 63 Grove Road, Bow, E. 3.

QUALIFIED Branch Manager, with London experience, wanted for London; must be a good Organiser and a capable Manager; references must bear the strictest investigation; some knowledge of Photography essential; good salary and commission. 273/300, Office of this Paper.

REQUIRED, qualified Dispenser (male) for about six weeks; hours 9.30 to 5; lunch and tea provided; used to Hospital work. Applications to the Secretary, Queen Mary's Hospital for the East End, Stratford, E. 15.

SURGICAL Instrument Business.—Second Assistant, about 21 years of age; state duties accustomed to, and wages expected. Address E., 54, Birchall's Advertising Offices, Liverpool.

UNQUALIFIED Assistant (male) for quick Counter and Dispensing business; outdoors; state experience, salary required, etc. F. H King, 173 Hamlet Court Road, Westcliff, Essex.

UNQUALIFIED, chiefly for Dispensing and to assist at Counter; age 25-30; of good appearance and address; must be a neat, quick, and accurate Dispenser, and used to good-class business; Photographic knowledge necessary; state full particulars of previous experience, salary required (outdoors), and give necessary references, which must be undeniable. Chater, Watford.

UNQUALIFIED Assistant, as Locum, Dispensing and Retail, required at once. 'Phone Stratford 755, or call at 10 Terrace Road, Upton Manor, E. 13.

WANTED, qualified Manager (young); one accustomed to Optics and Photography preferred; please give full particulars and salary required. Colmans, 19 Brunswick Street, Manchester, N.

WANTED, unqualified Assistant, with good knowledge of Optics; permanency. Apply, with references, stating whether single or married, and salary required, to E. R. Dixon, West Hill House, Lincoln.

WANTED, a thoroughly experienced Assistant in a high-class Family and Dispensing business; permanency; outdoors; able to take charge. Apply, stating age, experience, salary required, and when disengaged, to 274/6, Office of this Paper.

WHOLESALE.

ADVERTISING.—Large London firm has a vacancy in its Advertising Department suitable for recently qualified Pharmacist, with taste for writing and compiling advertising matter. Send full particulars of age, qualifications, previous occupation, etc., to 138/30, Office of this Paper.

AN experienced Shorthand Typist required by Wholesale Druggists; knowledge of Dictaphone an advantage. Write "E. J. S." (136/42), Office of this Paper.

AN experienced female Supervisor required for department packing Chemists' Specialities; must thoroughly understand the management of girls, and have the experience for a large and increasing output. Please apply in the first instance, stating salary required and full particulars of previous employment, to Works Manager, Priory Court, London Road, Cheltenham Spa.

CHEMIST, qualified, not over 35, in Wholesale Druggists, to take charge of department. Write particulars and wages required to "A. V. A.," Dakin Brothers, 82 Middlesex Street, E. 1.

CHEMIST wanted for small steam laboratory, and to Superintend a general packing business; must have practical experience in Lozenge and Tablet making, and a thorough knowledge of the Wholesale Drug trade. Please state age, salary required, and full details of previous experience, 273/8, Office of this Paper.

COPYWRITER for Labels, Showcards, Cartons, and Trade Advertisements; knowledge of the trade both Retail and Wholesale essential. Apply 137/39, Office of this Paper.

DISPATCH Clerk.—Required (at once) by London firm of Wholesale Chemists, an experienced man, to control despatch of goods by rail and motor van. State salary required, etc., to 138/73, Office of this Paper.

DRY Floor Foreman required in Export Wholesale Druggists; wages 78s. to 83s. per week, according to experience and capacity. Full particulars to 138/4, Office of this Paper.

EXPERT Salesmen required at once for the following territories: South Wales, Liverpool and North Wales, Manchester and district, Nottinghamshire, North Yorkshire, South Yorkshire; applicants must have good connection with Chemists and Hairdressers; salary, commission, and travelling expenses; splendid opportunity for the right men. Apply, stating experience, age, and salary required, to 265/22, Office of this Paper.

REPRESENTATIVE, with well-established connection among Chemists, required by manufacturers of well-known proprietary Toilet Preparations; one carrying one or two other lines which would not clash not objected to; must be good Salesman; highest references. Please state ground covered and terms to 266/22, Office of this Paper.

REPRESENTATIVE required for the East Coast from Leicester to Newcastle-on-Tyne inclusive, to take over well-known connection; salary and expenses. "Lozenge" (137/51), Office of this Paper.

REPRESENTATIVE required by a high-class Perfumery, for representation in East and South Coast and South-West of England; must be energetic, experienced, and with good connection among Chemists, Drapers, and Hairdressers; salary with commission for capable man. Apply 138/10, Office of this Paper.

REPRESENTATIVES wanted, on commission basis, for Brilliantine, Belgian Camomiles, and other articles. Address John Allnutt, Junior, Newbury, Berks.

SMART youth required, 17 to 18, with some knowledge of Druggists' Sundries; good at writing and figures and telephone work. Apply Dakin Brothers, Ltd., 82 Middlesex Street, E. 1.

SMART unqualified Assistant required for London by a firm of Company Chemists; London experience essential; good salary and commission 273/30, Office of this Paper.

TABLETS.—Experienced Charge Hand wanted; state age, wages required, and experience (in confidence). Also Machine Operator, having experience with Stokes', Coltons', Wilkinsons', and Rotary machines; state (in confidence) fullest particulars and wages required. "Tablets" (137/38), Office of this Paper.

TO Travellers with good Chemists' connection; quick-selling side-line on good commission basis; ready sellers; grounds open, Potteries district, Chester, N. and S. Wales, Birmingham, Bristol, and North London. Apply P. O. B. 20/26, Office of this Paper.

TRAVELLER wanted with sound connection in City and West-End amongst Chemists and Stores to sell Toilets, Packed Goods, Tablets, etc. Apply White Band Manufacturing Co., Ltd., Croydon, Surrey.

TRAVELLER wanted (immediately) by high-class Soap and Perfumery manufacturers for South and East Coasts; only applications from young, energetic men with previous experience and live connections entertained; salary and commission. Apply, giving full particulars, to 136/16, Office of this Paper.

TRAVELLER wanted, to carry a very profitable side-line of a well-advertised article; sample can be carried in the pocket; only men with sound connection will be considered. Applications, in writing, to Box 5019, Hyams' Advertising Agency, 10 Essex Street, London, W.C. 2.

TRAVELLER required for London and South Coast by London firm with large existing connection in high-class Toilet Articles. Replies, P. C. B. 22/10, Office of this Paper.

TRAVELLERS, one City and West-End, one Midlands, good connections Chemists and Stores, for high-class Perfumery and Toilet articles. Apply by letter "X. Y. Z.," 61 Chancery Lane, W.C. 2.

TRAVELLERS required to carry advertised Toilet goods as side-lines on commission; part expenses paid to good order-getters; territories open, Midlands, North, Scotland, and Ireland. Apply "Eydolash," 345 Archway Road, Highgate, N.

TRAVELLERS wanted for the whole of England and Wales for a quick-selling line with Chemists and Drug Stores; commission only. Apply, stating ground covered, etc., to "Birmingham" (270/18), Office of this Paper.

TRAVELLERS wanted (immediately), with good, sound connection among Chemists, Stores, and Hairdressers, to sell attractive and high-class Toilet Preparations on commission basis; only live men, capable of pulling big turnover, need apply. Particulars of lines carried, ground covered, and connection to P. C. B. 22/9, Office of this Paper.

TRAVELLERS (2) wanted for Chemists' and Hairdressers' Sundries, on good salary and commission basis, in London and suburbs; only experienced and active men need apply. Apply in first instance by letter to R. H. Myer, c/o Ross Supply Co., 1 Lingham Street, Stockwell, S.W. 9.

VACANCY in Sundries Department for experienced Assistant (male or female) to assemble orders and keep stock. Galen Manufacturing Co., Ltd., Wilson Street, New Cross, S.E. 14.

WANTED, Junior Representative for Scotland by leading British manufacturing house of Toilet goods; must be single and resident in Edinburgh preferred; state age and salary required. Apply 133/32, Office of this Paper.

WANTED, Emulsion Maker; good knowledge of subject essential. Apply 136/56, Office of this Paper.

WANTED, a Junior Invoice Clerk (male), with experience in Chemical business preferred. Apply by letter, giving full particulars, to Hopkin & Williams, Ltd., 16 Cross Street, Hatton Garden, E.C.

WANTED, a thoroughly practical man with experience in the manufacture of liquefied Cyanide Gas, and capable of taking entire charge; good salary to good man; permanency ensured. Apply "S. R. C." (137/12), Office of this Paper.

WANTED, for a responsible position in office of Chemical Agents, a young reliable man of good education, and with excellent referenees; preferenee given to one with previous experience in the Chemical trade; an excellent opportunity offers itself for suitable applicant. Apply, giving full particulars with regard to age, previous experience, salary required, etc., etc., to 138/61, Office of this Paper.

WANTED, smart Travellers, with first-class connections, for (1) South Wales, (2) Eastern Counties, (3) Southern Counties, (4) Staffordshire, Warwickshire, Worcestershire, Shropshire, Herefordshire, (5) Somerset, Gloucestershire, Wilts, Berks, to push excellent side-line; 20 per cent. commission; proved dry cleaner; perfect results on fashionable velour and felt hat, and wide range of articles; smart showcards; small samples; good existing connections handed over to right men; state full particulars in confidence. Apply 270/37, Office of this Paper.

WE WANT TRAVELLERS
for

Shropshire.
Gloucestershire.
Herefordshire.
Worcestershire.
Gloucestershire.
Cumberland.
Somerset.
Wiltshire.
Hertford.
Middlesex.
Northumberland.
Durham.
Westmorland.
Welsh Counties.
Eastern Counties.
S. & E. Midlands.
South Coast.
S.W. & S.E. London.

Live Salesman, with established connection among Chemists, and able to push WELL-ADVERTISED, profitable, and attractive lines on good commission. Apply, stating ground covered and references, to 259/34, Office of this Paper.

WANTED, by firm of Wine Merchants and Food Packers, smart, tactful man, about 30 to 35 years of age, with experience, as Representative, must have good organising ability, and have practical knowledge and experience of inside management, to take joint position of Sales Manager and Assistant Works Manager. Apply 271/11, Office of this Paper.

EDITORIAL ASSISTANT.

AN additional Assistant is required shortly on the Editorial Staff of "The Chemist and Druggist." Applications are invited from qualified Chemists not over thirty, who have had a varied experience of Pharmacy. Literary aptitude and adaptability are recommendations. Applicants should state particularly the salary they expect, and give details of their war service. "M. B.," 42 Cannon Street, London, E.C. 4.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

BOMBAY.—Two Assistants for leading European Chemists in Bombay; good progressive salaries; 3 years' agreement; passages paid; reasonable hours; comfortable jobs; good prospects; strongly recommended by advertiser, who will give all particulars at interview. P. C. B. 21/39, Office of this Paper.

BRITISH WEST INDIES.—Wanted, for large Wholesale, Retail, and Dispensing Chemists, unqualified Junior, not over 24, with brisk country experience; candidates must be physically fit to stand work in tropical climate; three years' agreement; passage paid out; good opportunity for energetic young man to gain thorough insight into Colonial business methods. Apply, stating age, experience, and salary required, to "B. E. M.," c/o Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

PARIS.—Qualified Assistant; knowledge of French and Continental experience; outdoors; short hours; no Sunday or night duty; state age, experience, references, and salary required in first letter; permanency, with good prospects, for suitable man; send photograph, which will be returned. Roberts & Co., 5 Rue de la Paix, Paris.

STRAITS SETTLEMENTS.—Assistant, unmarried, with Chemist's and Optician's qualifications; three years' agreement; passage paid out and home; salary first year dollars 300, second year dollars 325, third year dollars 350 (Straits dollars 2s. 4d.). Apply 116/23, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less, 6d. for every additional 10 words or less, prepaid.

[HOME.]

RETAIL.

A.A.—ASSISTANT; 32; unregistered; experienced Salesman; West End. "Statim," 204 Ebury Street, S.W.

A CAPABLE, experienced Assistant desires permanency; at present disengaged; reliable, with good references. "Unqualified," 286 Kingsland Road, London, E. 8.

A QUALIFIED Chemist of wide experience desires berth; Locum or permanency; disengaged; state salary offered. "Chemicus" (271/7), Office of this Paper.

A QUALIFIED Chemist, 20 years' experience (including transfer of several businesses); disengaged; Locum or permanency; up-to-date Photography. "Chemist," Craithie Cottage, Sandown, I.W.

ADVERTISER, 30, married, energetic, desires post; experienced Counter, Dispensing and Photo, Windows, etc.; disengaged February 1st; excellent references; active, smart, and enterprising. Apply 262/4, Office of this Paper.

ADVERTISER requires position as Manager or Assistant Manager in works; experienced Pills, Tablets, Fluids, Packed Goods, Toilet products; knowledge of machinery; control staff; good organiser; introduce new lines; 30, married. Apply 266/11, Office of this Paper.

ADVERTISER, 32, experienced, desires position as Manager or Managing Assistant of Drug Stores; active Counterman, good Prescriber, Extractor, smart Window-dresser; energetic; good references; unqualified; married, 5 ft. 10 in. Lucas, 65 Maydwell Street, Albany Road, S.E.

ADVERTISER; excellent Counter and Dispensing experience; London and country; active, obliging; good references; reasonable terms. "Statim" (268/19), Office of this Paper.

ADVERTISER, qualified, married, disposed of business, seeks post responsibility, Locum or permanency; Dental and Optics; immediate engagement. "Statim" (274/20), Office of this Paper.

ADVERTISER, unregistered, Prescriber, Salesman, and good references, seeks Management of good Drug Stores, with residence; own furniture; in or near London; or would purchase on agreement. Apply 273/12, Office of this Paper.

AS Assistant Dispenser; unqualified (lady); good references. Apply 253/9, Office of this Paper.

AS Locum; permanency, moderate terms; good references; all-round experience. "Chemist," 6 Eastbourne Terrace, Hyde Park.

AS Locum; qualified; in or near London. "H. E. W.," 2 Antrobus Road, Chiswick, W. 4.

AS Locum; part time; 30; experienced; disengaged 5th; abstainer. Alexander, 51 Balham Hill, S.W.

AS Manager or Locum; London or country; elderly, qualified, experienced Dispenser, with or without view to purchase. Apply 270/32, Office of this Paper.

AS Manager or Traveller; unregistered; 44, tall, married; 20 years' experience Counter and Dispensing England, Ireland, Canada; Dispenser in Army over three years (rank Sergeant); medical experience (ex-student); considered good Salesman, Extractor, Prescriber; any district; disengaged; state wages offered. Replies "Demobbed" (270/39), Office of this Paper.

AS Manager, Drug Stores, Assistant in Pharmacy; unqualified; varied and lengthy experience; outdoors. Morris, 43 Adolphus Street, New Cross, S.E.

AS Manager or Managing Assistant; 35; experienced; active; abstainer; married; wife could assist; new free; 90s. weekly; London preferred. "G." (273/33), Office of this Paper.

AS qualified Manager; disengaged; London and provincial experience; permanency; South Wales preferred. Davies, 1 Woodland Terrace, Cross Hands, near Llanelly.

AS Relief, days, half-days, and Sundays, by an experienced Locum; smart, neat, and quick. G., 122 Scott-Ellis Gardens, St. John's Wood, N.W.

ASSISTANT, lady; unqualified; 22 years; three years' good Counter experience; disengaged; Blackpool district; moderate salary. "Statim," 130 Albert Road, Blackpool.

ASSISTANT, experienced Dispenser (Hall certificate) and Counter hand, desires post; excellent testimonials and references; small knowledge of Optics and Photography; salary 50s. per week first three months, then £3. Miss H. Wimbush, Woodcote, Weybridge. Telephone 498.

ASSISTANT; 21; good Dispensing, Counter, and Photographic experience; excellent references; disengaged. Apply Miss T., Aberdeen House, Grayshott, Hants.

ASSISTANT; disengaged January 3rd; Locum, permanency; quick Dispenser, Prescriber, Extractor, Photographic; could take charge; tall, unqualified. "Rex," 90a Pearcroft Road, Leytonstone, E. 11.

ASSISTANT, unqualified, 25, recently demobilised, tall, good Dispenser and Photographic Salesman, four years' apprenticeship, and six months' Assistant, desires post at once; excellent references. Dawson Woodward, Purton, Swindon, Wilts.

ASSISTANT or Manager in good-class business with Photographic, and opening for Optical, with a view to acquiring interest; near London preferred; advertiser with good experience in all branches; qualification, Pharmaceutical Chemist, F.S.M.C. Apply "A. Z.," c/o Wright, Layman & Umney.

ASSISTANT; 27; unqualified; Wholesale, Counter, Dispensing, and Photographic experience; London or district preferred. Apply 263/34, Office of this Paper.

ASSISTANT; unqualified; Counter and Dispensing, also N.I.D.; London and country experience. "Statim" (266/18), Office of this Paper.

ASSISTANT; 22; unqualified; experienced high-class Dispensing, smart Salesman; excellent references; just demobilised. Full particulars first letter to Jeffs, 42 Morel Street, Barry.

ASSISTANT, unqualified, 26, requires situation. Webb, 3 Clayton Street, Skelmersdale, Lancs.

ASSISTANT, unqualified, 26, single, nine years' experience high-class Dispensing, Counter, Extracting, desires post with Chemist or as Dispenser to Doctor; disengaged January 4th. Apply B. Ulyat, 30 Mawson Road, Cambridge.

ASSISTANT, unqualified, with good references, now disengaged; 28, tall, abstainer; neat, accurate Dispenser, Counter, and Photography. Parsonson, North Street, Sudbury, Suffolk.

ASSISTANT; unqualified; 6 ft., age 44, good appearance; disengaged; Locum or permanency; highest references; City and West-End experience Dispenser, Counterman, etc. "Radix" (P. C. B. 21/5), Office of this Paper.

ASSISTANT or Manager, qualified, four years, seeks permanency; first-class experience. Apply 263/21, Office of this Paper.

ASSISTANT, unqualified, disengaged; age 39, married; good references. Apply 270/12, Office of this Paper.

ASSISTANT, lady, 24, qualified, desires engagement in London Pharmacy; shop experience, disengaged; excellent references. Apply 258/7, Office of this Paper.

ASSISTANT wishes post with good-class Chemist for end of January; in or near Manchester. Apply 256/14, Office of this Paper.

ASSISTANT Dispenser, lady (Hall), requires post with Chemist, London; 11 years' experience; highest references. Apply 272/210, Office of this Paper.

ASSISTANT, experienced, unqualified, wishes permanency; excellent references. P. C. B. 22/2, Office of this Paper.

ASSISTANT; unqualified; first-class Dispensing experience; easy hours; state salary. Apply 272/19, Office of this Paper.

ASSISTANT, 22, experienced Counter, Dispensing, Photography, desires position, London. Apply Williams, 173 Ladbroke Grove, London, W. 10.

ASSISTANT, unqualified; 8 years' good all-round experience. W. E. Carter, 33 Chancellors Road, Hammersmith, W.C.

ASSISTANT; 30; unqualified Dispenser, Counter or Stock; 10 years' experience; Wholesale or Retail; excellent references; London. W. B., 68 Leonard Street, Finsbury, E.C. 2.

ASSISTANT, Senior; unqualified; experienced; disengaged; reliable; trustworthy. Assistant, 36 Church Street, Woolwich.

ASSISTANT (unqualified); disengaged; good references. State salary, etc. (indoors), F. Palmer, 17 Parade, Felixstowe.

ASSISTANT; reliable Dispenser and Counterman; permanent; take charge; disengaged. "Statim," 10 Church Street, Maidstone.

ASSISTANT; unqualified; ten years' experience; good reference; Sheffield district preferred. R. Fairburn, Killamarsh, Sheffield.

ASSISTANT, unqualified; 31; thoroughly experienced; disengaged; married; £4 weekly. Sandy, 12 Clapham Park Road, S.W.

ASSISTANT; 34; married; experienced; disengaged 12th; interview; London preferred. M., 25 Malwood Road, S.W. 12.

ASSISTANT, 21, 5 years' experience, desires situation in or near the City; Dispensing, Counter, and little Photographic; salary required, £3 per week. "Pichi" (274/15), Office of this Paper.

ASSISTANT, 26, 11 years' experience, competent and reliable, desires change; Northern Counties preferred. Full particulars to "Provincial" (274/22), Office of this Paper.

AT liberty, Chemist to take charge any department; temporary or permanent. Apply "Efficient" (261/22), Office of this Paper.

CAPABLE Assistant; age 47; unqualified; experienced; smart Counterman, Salesman, and Window-dresser; initiative and not afraid of work; disengaged January 1st; present situation ten years; S.E. suburbs or near London preferred, but not essential; state salary. W. Gaunt, 112 Silvermere Road, Catford, S.E. 6.

CHEMIST, qualified, 45, as Manager or Locum; exceptional experience in high-class and N.H.I. Dispensing; Photographic expert; good references; disengaged; interview appreciated. P. C. B. 21/29, Office of this Paper.

CHEMIST'S Assistant; 30; unqualified; Counter and Dispensing; reliable; recently disengaged; West-End experience; Locum or permanency. Write to M. Birch, 8 Cromwell Grove, Hammersmith, W. 6.

CHEMIST'S Daughter, 23, five years' experience good-class Retail and Dispensing, Hall qualification, good references, disengaged. Apply 272/38, Office of this Paper.

CLERICAL work, any kind, evenings. Address "F. G." (186/36), Office of this Paper.

CLERK requires part-time employment; experience of Chemist's Books. S. Carly, "Mountsfield," Norbury Avenue, Norbury, S.W. 16.

COMPETENT Assistant; 32; unqualified; as Senior Assistant or Branch Manager; experienced Dispenser, Prescriber; successful Salesman and Window-dresser; good references; disengaged. State salary and hours to "Radix," 22 Washington Road, Sharrow, Sheffield.

CROYDON or Neighbourhood.—Two or three afternoons weekly wanted by lady Dispenser (Hall); excellent testimonials. Miss Matthews, 10 Morland Road, Croydon.

DEMOBILISED; 15 years' Retail experience; age 39 years; unqualified; 5 years last situation. Wild, Audley Road, Colchester.

DISENGAGED; Locum or Manager; qualified; 25 years' experience Retail and Dispensing. "Statim," 11 Laurie Avenue, Burford Road, Nottingham.

DISENGAGED, Assistant; competent, reliable, experienced, energetic. "Aspirin," 239 Camberwell New Road, S.E. 5.

DISENGAGED until 6.—As Manager or Senior; thoroughly experienced; good Dispenser and Counter. G., 122 Scott-Ellis Gardens, St. John's Wood.

DISENGAGED; Locum or Manager; qualified; 25 years' experience Retail and Dispensing; reasonable terms. "Statim," 11 Lauric Avenue, Burford Road, Nottingham.

DISPENSER (lady) requires post beginning of January; Doctor or Chemist; highest references. Apply 263/30, Office of this Paper.

DISPENSER (lady), Hall, desires post; Leeds or district; Doctor or Institution preferred; experience, Chemist and three years' Hospital. Apply 266/17, Office of this Paper.

DISPENSER, lady (Hall), shop experience, seeks situation. Apply 266/24, Office of this Paper.

DISPENSER, lady (Hall), 2½ years at Military Hospital, desires engagement. N. Lonsdale, "Beechwood," Lostock Hall, Preston, Lancs.

DISPENSER, lady (Hall); Shorthand, Typewriting, Bookkeeping if required; two years' experience Dispensing and Counter; Doctor, Chemist, or Institution; free from January 1st. Marley, Cartref, Minehead.

DISPENSER, qualified, desires post with Chemist; preferably in or near London; assistance at Counter if required. Steabben (Miss), Watford.

DISPENSER, lady, unqualified, seeks post; part or full time. Miss Foreman, 23 Glenton Road, Lee, S.E. 13.

DISPENSER (Hall), good experience, desires N.H.I. or other Dispensing; excellent references; in or near London. Apply 273/27, Office of this Paper.

DISPENSER; unqualified; 25; abstainer; 8 years' general and high-class Dispensing; excellent references; prefers post near Manchester or Oldham. Apply 273/51, Office of this Paper.

DISPENSER-BOOKKEEPER (35); permanency required; would do Locum; Extractor, Dresser, N.H.I. work; 16 years' experience; good references; disengaged. Strutt, 2 London Road, Hailsham.

DISPENSING.—Lady (Hall) desires post; good experience; Institution preferred. "A.," 10 Antrim Grove, Belsize Park, N.W.

ELDERLY, qualified, active, capable, in responsible position as Manager of Branch, Dispenser to Doctor or Hospital; first-class references. Apply "E. B." (273/4), Office of this Paper.

ENGAGEMENT as Manager or as Locum wanted by qualified Chemist; Photography, Optics, etc.; Eastern Counties preferred. "Chemist," 82 Chapel Field Road, Norwich.

EVENING employment wanted in the Manchester district by qualified Pharmacist. "Traveller" (268/3), Office of this Paper.

EVENINGS, Sundays, and one afternoon weekly; experienced; competent take charge. 272/22, Office of this Paper.

EXPERIENCED Locum; disengaged January 5; £3. C. S., 19 Rockmount Road, S.E. 19.

FIRST-CLASS experience Counter, Dispensing, Photo, Windows; disengaged; unqualified; any distance, as long as permanency is offered. P. C. B. 21/31, Office of this Paper.

GENTLEMANLY Assistant; unqualified; age 28; high-class Dispensing and Counter experience; just demobilised; four years' Dispensing with H.M. Forces; London or South Coast preferred. "Aspirin," Bramlyns, Rowlands Road, Worthing.

JUNIOR; 5 years' experience; tall; Manchester or near. Apply 272/36, Office of this Paper.

LADY Dispenser (Hall); three years' experience; good testimonials; disengaged now. "Statim" (271/12), Office of this Paper.

LADY Dispenser (Hall) desires position; Institution preferred; four years' experience. Apply 274/31, Office of this Paper.

LADY Dispenser (Hall) desires post; good Hospital experience; excellent testimonials; disengaged. Miss Leeder, 7 Mortlake Road, Kew, Surrey.

LADY Dispenser-Bookkeeper or Secretary to Doctor or Institution; qualified; long experience; well recommended. Cregeen, 129 Rosendale Road, Dulwich, S.E. 21.

LADY Dispenser-Bookkeeper, qualified, desires post; experienced; 8 years' testimonial; highest references. 272/21, Office of this Paper.

LADY Dispenser-Secretary (Hall) seeks work anywhere. Wheeler, 15 Beaconsfield Villas, Brighton.

LADY wants position; Hall qualification; experienced in Doctor's Dispensary; several years in a Pharmacy; London, S.E. district preferred. Apply 271/6, Office of this Paper.

LIVERPOOL DISTRICT OR ACROSS THE FERRY.—Branch Manager, qualified, in last management 11 years, single-handed, wants a change; varied experience as Locum, N.H.I.; permanency or for period; at liberty; interview. Brewerton, 104 Manchester Street, Heywood.

LIVERPOOL or Chester.—Assistant, 21, unqualified, requires situation in Liverpool or Chester; good-class business preferred; first-class West-End experience. Reply S. R. Williams, c/o 34 High Street, Notting Hill Gate, London, W. 11.

LOCUM or temporary; qualified; experienced and capable; highest references; disengaged until April. "Chemist," 32 Allendale Road, Leicester.

LOCUM; any period; thoroughly competent; at liberty. "Reliable," 239 Camberwell New Road, S.E. 5.

LOCUM (temporary Manager); 53; qualified; country; disengaged until March; first-class experience and references; Photography, Optics; energetic. Dewey, 4 Montague Gardens, Wallington, Surrey.

LOCUM or otherwise, Manager; 20 years' all-round experience town and country; good Extractor; will not work for any large Stores Chemist. "Rhei," 3 Woburn Buildings, Woburn Place, Euston, London.

LOCUM disengaged; wide experience; highest references; well recommended. "Beta," 74 West Hill, East Putney, London, S.W. 15.

MANAGER; qualified; 39. married, no family; high-class experience; highest credentials; at liberty New Year. "Serum," Hazelwood, Windermere Road, Coulsdon, Surrey.

MANAGER; qualified; highest references; first-class Dispenser; excellent Prescriber; expert practical Photographer; keen business acumen; state salary and fullest terms. "Permanency" (270/22), Office of this Paper.

MANAGER; qualified; 55; disengaged; energetic; good all-round; London or provinces. Wright, 93 Brixton Road, S.W. 9.

MANAGER or Assistant; qualified; 35; disengaged; married; all-round experience; good references; permanency. "Omega," 98 Greyhound Lane, Stretham, S.W. 16.

MANAGER, Branch Manager, or Locum; qualified; good experience; South or West England preferred, but not essential. North, c/o S. Barlow, St. Columb, Cornwall.

MANAGERSHIP; qualified; 30; thoroughly up-to-date; experience and business abilities unequalled; state fullest particulars; £6 10s. per week plus commission. "Expert" (270/220). Office of this Paper.

MIDLANDS.—Assistant, unqualified, 26, desires situation in good-class Dispensing business. Salary, hours, etc., to 273/14, Office of this Paper.

MINOR Student (lady) seeks part-time situation; S.W. preferred. "D.," 19 Crescent Grove, Clapham Common, S.W. 4.

MINOR Student (Hall qualification) desires post with Chemist; London preferred. Reply "R. B.," 15 Wymering Mansions, W. 9.

NEWCASTLE-ON-TYNE.—Young lady, unqualified, requires part-time post (day); 3½ years' experience. Apply 261/23. Office of this Paper.

PART-TIME; qualified; 27; evenings and week-ends; London. Apply P. C. B. 19/37, Office of this Paper.

PART-TIME; Lancashire; qualified; age 30. "Chemist," 14 College Grove Road, Wakefield.

PART-TIME; six hours daily; 1s. 9d. hour; 33. "Competent," 8 York Road, Hitchin.

PART-TIME; London; any hours, to suit requirements; thorough in any capacity; long, varied experience; disengaged; unqualified. F., 286 Kingsland Road, London, E. 8.

PART-TIME Student requires six hours' work a day with good Dispensing Chemist; London preferred, but not essential; three years' experience. Salary to F. Tomlinson, 192 High Street, Homerton, London, E. 9.

PHARMACIST, experienced, requires position Branch Manager or Senior in good-class business; Liverpool or Manchester district preferred; at liberty about end of January. "Energetic" (270/30). Office of this Paper.

PHARMACIST, having sold own business, desires permanent engagement (immediately) in any suitable capacity; London. McCorquodale, 63 Glenmore Road, N.W. 3.

QUALIFIED, 27, desires part-time post, London; hours can be arranged as required; knowledge of Optics. Apply P. C. B. 19/370, Office of this Paper.

QUALIFIED (lady) requires situation; excellent references; 8½ years' Dispensing and Counter; Liverpool or London; State particulars. Roberts, 119 High Street, Blaenau Festiniog.

QUALIFIED, 29, single, disengaged, desires permaneney; good experience. Photography. "F. S.," Abbeygate Street, Bury St. Edmunds.

QUALIFIED desires post as Manager or Senior; excellent references; good all-round experience; moderate salary. Biggs, 51 Highfield Street, Leicester.

QUALIFIED, 37, seeks good berth in the provinces; first-class experience London and provincial; permanency wanted. Pattison, 5 Royal Crescent, Whitby.

QUALIFIED; 35, single, good appearance; three years' Army; good-class London and country experience; six years absent Retail; salary secondary; any capacity; excellent references; personal interview London; replies in confidence. P. C. B. 21/4, Office of this Paper.

QUALIFIED Assistant or Manager; 25 years of age; excellent references and experience; energetic, reliable; life-long abstainer; Welsh known. Apply 268/15, Office of this Paper.

QUALIFIED Pharmacist desires engagement; provinces preferred; steady, reliable, with first-class Dispensing experience; single, age 32. Apply 268/4, Office of this Paper.

QUALIFIED, experienced Manager; excellent reference; abstainer; permanency preferred; now disengaged; please state salary offered and class of business. Apply 270/8, Office of this Paper.

QUALIFIED, 30, tall, married, smart appearance, requires situation in London; West-End experience; reliable Dispenser; speaks Spanish. Apply 270/10, Office of this Paper.

QUALIFIED, 28, accustomed to good-class Retail and Dispensing, excellent references, desires engagement early in New Year. Burcombe, Culme, St. Catherine's, Lincoln.

QUALIFIED, 28, married, good Dispensing, Counter, and Photographic experience, desires permanency; Manager or Senior; London preferred, but not essential. State salary and hours, 272/25, Office of this Paper.

QUALIFIED; 22 years' best-class experience, English and Continental; Manager or Senior; no stores. "Ignotus" (272/20), Office of this Paper.

QUALIFIED (23); disengaged January 5; highest references; good Dispensing experience; Liverpool or district preferred; interview any time. M.P.S., "Woodbank," Rowton, near Chester.

QUALIFIED, 25, ex-officer, desires situation in London (West preferred); disengaged. "G. A. H.," 86 George Street, Portman Square, W. 1.

QUALIFIED, 46, single, disengaged; any capacity. Barker, 23 Wellclose Mount, Blackman Lane, Leeds.

QUALIFIED Assistant, Manager, or Locum; experienced; abstainer; City or Southern suburbs; disengaged. S. S., 98 Greyhound Lane, Streatham Common, S.W. 16.

QUALIFIED Manager or Locum, 25 years' experience, requires permanency; town or country; disengaged; married. State salary to "M. D.," 26 Fox Hill, S.E. 19.

QUALIFIED, 30, married, just demobilised, all-round experience, requires herth as Manager, preferably with view to succession. "Qualified," 54 Chelsham Road, Clapham, S.W. 4.

QUALIFIED, elderly, single; best experience; easy post; moderate salary; London. Apply 274/23, Office of this Paper.

REGISTERED Branch Manager or Locum; first-class references. "D.," Eastdean, Stamford Road. Bowdon, Cheshire.

RELIABLE, energetic Assistant, unqualified, desires permanency, London; excellent references; fifteen years' experience high-class Dispensing and Counter work. B. J. C. (22/4), Office of this Paper.

TWO lady Dispensers seek posts immediately after Christmas; Doctor or Chemist; highest references; eight years' experience. Apply 263/11, Office of this Paper.

UNQUALIFIED; age 22; accustomed to high-class Dispensing business; highly recommended. P. Herbert, Grangeway, Grange Park, N. 21.

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